

(NASA-SP-7039 (25) -Sect-2) NASA PATENTS
ABSTRACTS BIBLIOGRAPHY: A CONTINUING
BIBLIOGRAPHY. SECTION 2: INDEXES
(SUPPLEMENT 25) (National Aeronautics and
Space Administration) 452 p HC \$20.00

N84-33257

Unclas

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NASA SP-7039(25)
Section 2
Indexes

NASA

PATENT

ABSTRACTS

BIBLIOGRAPHY

A CONTINUING BIBLIOGRAPHY

Section 2 • Indexes

JULY 1984



NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

ACCESSION NUMBER RANGES

<i>Bibliography Number</i>	<i>STAR Accession Numbers</i>
NASA SP-7039(04)	N69-20701 – N73-33931
NASA SP-7039(12)	N74-10001 – N77-34042
NASA SP-7039(13)	N78-10001 – N78-22018
NASA SP-7039(14)	N78-22019 – N78-34034
NASA SP-7039(15)	N79-10001 – N79-21993
NASA SP-7039(16)	N79-21994 – N79-34158
NASA SP-7039(17)	N80-10001 – N80-22254
NASA SP-7039(18)	N80-22255 – N80-34339
NASA SP-7039(19)	N81-10001 – N81-21997
NASA SP-7039(20)	N81-21998 – N81-34139
NASA SP-7039(21)	N82-10001 – N82-22140
NASA SP-7039(22)	N82-22141 – N82-34341
NASA SP-7039(23)	N83-10001 – N83-23266
NASA SP-7039(24)	N83-23267 – N83-37053
NASA SP-7039(25)	N84-10001 – N84-22526

NASA

**PATENT
ABSTRACTS
BIBLIOGRAPHY**

A CONTINUING BIBLIOGRAPHY

Section 2 • Indexes

Indexes for the annotated references to NASA-owned inventions covered by U.S. patents and applications for patent that were announced in *Scientific and Technical Aerospace Reports (STAR)* between May 1969 and June 1984. This issue supersedes all previous Index Sections.



This supplement is available as NTISUB/111/093 from the National Technical Information Service (NTIS), Springfield, Virginia 22161 at the price of \$20.00 domestic; \$40.00 foreign for standing orders. Please note: Standing orders are subscriptions which do not terminate at the end of a year, as do regular subscriptions, but continue indefinitely unless specifically terminated by the subscriber.

INTRODUCTION

Several thousand inventions result each year from the aeronautical and space research supported by the National Aeronautics and Space Administration. The inventions having important use in government programs or significant commercial potential are usually patented by NASA. These inventions cover practically all fields of technology and include many that have useful and valuable commercial application.

NASA inventions best serve the interests of the United States when their benefits are available to the public. In many instances, the granting of nonexclusive or exclusive licenses for the practice of these inventions may assist in the accomplishment of this objective. This bibliography is published as a service to companies, firms, and individuals seeking new, licensable products for the commercial market.

The *NASA Patent Abstracts Bibliography (NASA PAB)* is a semiannual NASA publication containing comprehensive abstracts and indexes of NASA-owned inventions covered by U.S. patents and applications for patent. The citations included in *NASA PAB* were originally published in NASA's *Scientific and Technical Aerospace Reports (STAR)* and cover *STAR* announcements made since May 1969.

For the convenience of the user, each issue of *NASA PAB* has a separately bound Abstract Section (Section 1) and Index Section (Section 2). Although each Abstract Section covers only the indicated six-month period, the Index Section is cumulative covering all NASA-owned inventions announced in *STAR* since 1969. Thus a complete set of *NASA PAB* would consist of the Abstract Sections of Issue 04 (January 1974) and Issue 12 (January 1978) and the Abstract Section for all subsequent issues and the Index Section for the most recent issue.

The 102 citations published in this issue of the Abstract Section cover the period January 1984 through June 1984. The Index Section references over 4300 citations covering the period May 1969 through June 1984.

ABSTRACT SECTION (SECTION 1)

This *PAB* issue incorporates the 1975 *STAR* category revisions which include 10 major subdivisions divided into 74 specific categories and one general category/division. (See Table of Contents for the scope note of each category under which are grouped appropriate NASA inventions.) This new scheme was devised in lieu of the 34 category divisions which were utilized in *PAB* supplements (01) through (06) covering *STAR* abstracts from May 1969 through January 1974. Each entry in the Abstract Section consists of a *STAR* citation accompanied by an abstract and a key illustration taken from the patent or application for patent drawing. Entries are arranged in subject category in order of the ascending NASA Accession Number originally assigned in *STAR* to the invention. The range of NASA Accession Numbers within each issue is printed on the inside front cover.

Abstract Citation Data Elements: Each of the abstract citations has several data elements useful for identification and indexing purposes, as follows:

- NASA Accession Number
- NASA Case Number
- Inventor's Name
- Title of Invention
- U.S. Patent Application Serial Number
- U.S. Patent Number (for issued patents only)
- U.S. Patent Office Classification Number(s)
(for issued patents only)

These data elements in the citation of the abstract are depicted in the Typical Citation and Abstract reproduced on the following page and are also used in the indexes.

TYPICAL CITATION AND ABSTRACT

NASA SPONSORED DOCUMENT → **N84-20782*** → National Aeronautics and Space Administration.
Lewis Research Center, Cleveland, Ohio. → **AVAILABLE ON MICROFICHE**

NASA ACCESSION NUMBER → **VORTEX GENERATING FLOW PASSAGE DESIGN FOR INCREASED FILM COOLING EFFECTIVENESS** → **SOURCE**

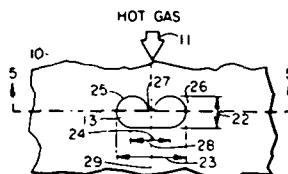
TITLE → **Patent Application**

INVENTOR → **S. S. PAPELL, inventor (to NASA) 15 Feb. 1984 15 p** → **US PATENT APPLICATIONS SERIAL NUMBER**

NASA CASE NUMBER → **(NASA-CASE-LEW-14039-1; US-PATENT-APPL-SN-580419)**

AVAILABILITY → **Avail: NTIS HC A02/MF A01 CSCL 20D** → **COSATI CODE**

ABSTRACT → A cooling fluid is injected into a hot flowing gas through a passageway in a wall which contains and is subject to the hot gas. The passageway is slanted in a downstream direction at an acute angle to the wall. A cusp shape is provided in the passageway to generate vortices in the injected cooling fluid thereby reducing the energy extracted from the hot gas for that purpose. The cusp shape increases both film cooling effectiveness and wall area coverage. The cusp may be at either the downstream or upstream side of the passageway, the former substantially eliminating flow separation of the cooling fluid from the wall immediately downstream of the passageway. NASA



KEY ILLUSTRATION

INDEX SECTION (SECTION 2)

The Index Section is divided into five indexes which are cross-indexed and are useful in locating a single invention or groups of inventions.

Each of the five indexes utilizes basic data elements: (1) Subject Category Number, (2) NASA Accession Number, and (3) NASA Case Number, in addition to other specific index terms.

Subject Index: Lists all inventions according to appropriate alphabetized technical term and indicates the related NASA Case Number, the Subject Category Number, and the NASA Accession Number.

Inventor Index: Lists all inventions according to alphabetized names of inventors and indicates the related NASA Case Number, the Subject Category Number, and the NASA Accession Number.

Source Index: Lists all inventions according to alphabetized source of invention (i.e., name of contractor or government installation where invention was made) and indicates the related NASA Case Number, the Subject Category Number, and the NASA Accession Number.

Number Index: Lists inventions in order of ascending (1) NASA Case Number, (2) U.S. Patent Application Serial Number, (3) U.S. Patent Classification Number, and (4) U.S. Patent Number and indicates the related Subject Category Number and the NASA Accession Number.

Accession Number Index: Lists all inventions in order of ascending NASA Accession Number and indicates the related Subject Category Number, the NASA Case Number, the U.S. Patent Application Serial Number, the U.S. Patent Classification Number, and the U.S. Patent Number.

HOW TO USE THIS PUBLICATION TO IDENTIFY NASA INVENTIONS

To identify one or more NASA inventions within a specific technical field or subject, several techniques are possible when using the flexibility incorporated into the *NASA PAB*.

(1) *Using Subject Category:* To identify all NASA inventions in any one of the subject categories in this issue of *NASA PAB*, select the desired Subject Category in the Abstract Section (Section 1) and find the inventions abstracted thereunder.

(2) *Using Subject Index:* To identify all NASA inventions listed under a desired technical subject index term, (A) turn to the cumulative Subject Index in the Index Section and find the invention(s) listed under the desired technical subject term. (B) Note the indicated Accession Number and the Subject Category Number. (C) Using the indicated Accession Number, turn to the inside front cover of the Index Section to determine which issue of the Abstract Section includes the Accession Number desired. (D) To find the abstract of the particular invention in the issue of the Abstract Section selected, (i) use the Subject Category Number to locate the Subject Category and (ii) use the Accession Number to locate the desired invention within the Subject Category listing.

(3) *Using Patent Classification Index:* To identify all inventions covered by issued NASA patents (does not include applications for patent) within a desired Patent Classification, (A) turn to the Patent Classification Number in the Number Index of Section 2 and find the associated invention(s), and (B) follow the instructions outlined in (2)(B), and (D) above.

PUBLIC AVAILABILITY OF COPIES OF PATENTS AND PATENT APPLICATIONS

Copies of U.S. patents may be purchased directly from the U.S. Patent and Trademark Office, Washington, D.C. 20231, for fifty cents a copy. When ordering patents, the U.S. Patent Number should be used, and payment must be remitted in advance, preferably by money order or check payable to the Commissioner of Patents and Trademarks. Prepaid purchase coupons for ordering are also available from the Patent and Trademark Office.

NASA *patent application specifications* are sold in paper copy by the National Technical Information Service at price code A02 (\$7.00 domestic; \$14.00 foreign). Microfiche are sold at price code A01 (\$4.50 domestic; \$9.00 foreign). The US-Patent-Appl-SN-number should be used in ordering either paper copy or microfiche from NTIS.

LICENSES FOR COMMERCIAL USE: INQUIRIES AND APPLICATIONS FOR LICENSE

NASA inventions, abstracted in *NASA PAB*, are available for nonexclusive or exclusive licensing in accordance with the NASA Patent Licensing Regulations. It is significant that all licenses for NASA inventions shall be by express written instruments and that no license will be granted or implied in a NASA invention except as provided in the NASA Patent Licensing Regulations.

Inquiries concerning the NASA Patent Licensing Program or the availability of licenses for the commercial use of NASA-owned inventions covered by U.S. patents or pending applications for patent should be forwarded to the NASA Patent Counsel of the NASA installation having cognizance of the specific invention, or the Assistant General Counsel for Patent Matters, Code GP-4, National Aeronautics and Space Administration, Washington, D.C. 20546. Inquiries should refer to the NASA Case Number, the Title of the Invention, and the U.S. Patent Number or the U.S. Application Serial Number assigned to the invention as shown in *NASA PAB*.

The NASA Patent Counsel having cognizance of the invention is determined by the first three letters or prefix of the NASA Case Number assigned to the invention. The addresses of NASA Patent Counsels are listed alongside the NASA Case Number prefix letters in the following table. Formal application of license must be submitted on the NASA Form, Application for NASA Patent License, which is available upon request from any NASA Patent Counsel.

**NASA Case
Number
Prefix Letters**

**Address of Cognizant
NASA Patent Counsel**

ARC-xxxxx
XAR-xxxxx

Ames Research Center
Mail Code: 200-11A
Moffett Field, California 94035
Telephone: (415)965-5104

ERC-xxxxx
XER-xxxxx
HQN-xxxxx
XHQ-xxxxx

NASA Headquarters
Mail Code: GP-4
Washington, D.C. 20546
Telephone: (202)755-3954

GSC-xxxxx
XGS-xxxxx

Goddard Space Flight Center
Mail Code: 204
Greenbelt, Maryland 20771
Telephone: (301)344-7351

KSC-xxxxx
XKS-xxxxx

John F. Kennedy Space Center
Mail Code: PT-PAT
Kennedy Space Center, Florida 32899
Telephone: (305)867-2544

LAR-xxxxx
XLA-xxxxx

Langley Research Center
Mail Code: 279
Hampton, Virginia 23365
Telephone: (804)827-8725

LEW-xxxxx
XLE-xxxxx

Lewis Research Center
Mail Code: 500-318
21000 Brookpark Road
Cleveland, Ohio 44135
Telephone: (216)433-6346

MSC-xxxxx
XMS-xxxxx

Lyndon B. Johnson Space Center
Mail Code: AL3
Houston, Texas 77058
Telephone: (713)483-4871

MFS-xxxxx
XMF-xxxxx

George C. Marshall Space Flight Center
Mail Code: CC01
Huntsville, Alabama 35812
Telephone: (205)453-0020

NPO-xxxxx
XNP-xxxxx
FRC-xxxxx
XFR-xxxxx
WOO-xxxxx

NASA Resident Legal Office
Mail Code: 180-801
4800 Oak Grove Drive
Pasadena, California 91103
Telephone: (213)354-2700

PATENT LICENSING REGULATIONS

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

14 CFR Part 1245

Licensing of NASA Inventions

AGENCY: National Aeronautics and Space Administration.

ACTION: Interim regulation with comments requested.

SUMMARY: The National Aeronautics and Space Administration (NASA) is revising its patent licensing regulations to conform with Pub. L. 96-517. This interim regulation provides policies and procedures applicable to the licensing of federally owned inventions in the custody of the National Aeronautics and Space Administration, and implements Pub. L. 96-517. The object of this subpart is to use the patent system to promote the utilization of inventions arising from NASA supported research and development.

EFFECTIVE DATE: July 1, 1981. Comments must be received in writing by December 2, 1981. Unless a notice is published in the *Federal Register* after the comment period indicating changes to be made, this interim regulation shall become a final regulation.

ADDRESS: Mr. John G. Mannix, Director of Patent Licensing, GP-4, NASA, Washington, D.C. 20546.

FOR FURTHER INFORMATION CONTACT: Mr. John G. Mannix, (202) 755-3954.

SUPPLEMENTARY INFORMATION:

PART 1245—PATENTS AND OTHER INTELLECTUAL PROPERTY RIGHTS

Subpart 2 of Part 1245 is revised to read as follows:

Subpart 2—Licensing of NASA Inventions

Sec.

- 1245.200 Scope of subpart.
- 1245.201 Policy and objective.
- 1245.202 Definitions.
- 1245.203 Authority to grant licenses.

Restrictions and Conditions

- 1245.204 All licenses granted under this subpart.

Types of Licenses

- 1245.205 Nonexclusive licenses.
- 1245.206 Exclusive and partially exclusive licenses.

Procedures

- 1245.207 Application for a license.
- 1245.208 Processing applications.
- 1245.209 Notice to Attorney General.
- 1245.210 Modification and termination of licenses.
- 1245.211 Appeals.
- 1245.212 Protection and administration of inventions.

1245.213 Transfer of custody.

1245.214 Confidentiality of information.

Authority: 35 U.S.C. Section 207 and 208, 94 Stat. 3023 and 3024.

Subpart 2—Licensing of NASA Inventions

§ 1245.200 Scope of subpart.

This subpart prescribes the terms, conditions, and procedures upon which a NASA invention may be licensed. It does not affect licenses which (a) were in effect prior to July 1, 1981; (b) may exist at the time of the Government's acquisition of title to the invention, including those resulting from the allocation of rights to inventions made under Government research and development contracts; (c) are the result of an authorized exchange of rights in the settlement of patent disputes; or (d) are otherwise authorized by law or treaty.

§ 1245.201 Policy and objective.

It is the policy and objective of this subpart to use the patent system to promote the utilization of inventions arising from NASA supported research and development.

§ 1245.202 Definitions.

(a) "Federally owned invention" means an invention, plant, or design which is covered by a patent, or patent application in the United States, or a patent, patent application, plant variety protection, or other form of protection, in a foreign country, title to which has been assigned to or otherwise vested in the United States Government.

(b) "Federal agency" means an executive department, military department, Government corporation, or independent establishment, except the Tennessee Valley Authority, which has custody of a Federally owned invention.

(c) "NASA Invention" means a Federally owned invention with respect to which NASA maintains custody and administration, in whole or in part, of the right, title, or interest in such invention on behalf of the United States Government.

(d) "Small business firm" means a small business concern as defined at section 2 of Pub. L. 85-536 (15 U.S.C. 632) and implementing regulations of the Administrator of the Small Business Administration. For the purpose of these regulations, the size standard for small business concerns involved in Government procurement, contained in 13 CFR 121.3-8, and in subcontracting, contained in 13 CFR 121.3-12, will be used.

(e) "Practical application" means to manufacture in the case of a composition or product, to practice in the case of a process or method, or to

operate in the case of a machine or system; and, in each case, under such conditions as to establish that the invention is being utilized and that its benefits are to the extent permitted by law or Government regulations available to the public on reasonable terms.

(f) "United States" means the United States of America, its territories and possessions, the District of Columbia, and the Commonwealth of Puerto Rico.

§ 1245.203 Authority to grant licenses.

NASA inventions shall be made available for licensing as deemed appropriate in the public interest. NASA may grant nonexclusive, partially exclusive, or exclusive licenses thereto under this subpart on inventions in its custody.

Restrictions and Conditions

§ 1245.204 All licenses granted under this subpart.

(a) *Restrictions.* (1) A license may be granted only if the applicant has supplied NASA with a satisfactory plan for development or marketing of the invention, or both, and with information about the applicant's capability to fulfill the plan.

(2) A license granting rights to use or sell under a NASA invention in the United States shall normally be granted only to a licensee who agrees that any products embodying the invention or produced through the use of the invention will be manufactured substantially in the United States.

(b) *Conditions.* Licenses shall contain such terms and conditions as NASA determines are appropriate for the protection of the interests of the Federal Government and the public and are not in conflict with law or this subpart. The following terms and conditions apply to any license:

(1) The duration of the license shall be for a period specified in the license agreement, unless sooner terminated in accordance with this subpart.

(2) The license may be granted for all or less than all fields of use of the invention or in specified geographical areas, or both.

(3) The license may extend to subsidiaries of the licensee or other parties if provided for in the license but shall be nonassignable without approval of NASA, except to the successor of that part of the licensee's business to which the invention pertains.

(4) The license may provide the licensee the right to grant sublicenses under the license, subject to the approval of NASA. Each sublicense shall make reference to the license, including the rights retained by the Government, and a copy of such

PATENT LICENSING REGULATIONS

sublicense shall be furnished to NASA.

(5) The license shall require the licensee to carry out the plan for development or marketing of the invention, or both, to bring the invention to practical application within a period specified in the license, and to continue to make the benefits of the invention reasonably accessible to the public.

(6) The license shall require the licensee to report periodically on the utilization or efforts at obtaining utilization that are being made by the licensee, with particular reference to the plan submitted.

(7) All licenses shall normally require royalties or other consideration.

(8) Where an agreement is obtained pursuant to § 1245.204(a)(2) that any products embodying the invention or produced through use of the invention will be manufactured substantially in the United States, the license shall recite such agreement.

(9) The license shall provide for the right of NASA to terminate the license, in whole or in part, if:

(i) NASA determines that the licensee is not executing the plan submitted with its request for a license and the licensee cannot otherwise demonstrate to the satisfaction of NASA that it has taken or can be expected to take within a reasonable time effective steps to achieve practical application of the invention;

(ii) NASA determines that such action is necessary to meet requirements for public use specified by Federal regulations issued after the date of the license and such requirements are not reasonably satisfied by the licensee;

(iii) The licensee has willfully made a false statement of or willfully omitted a material fact in the license application or in any report required by the license agreement; or

(iv) The licensee commits a substantial breach of a covenant or agreement contained in the license.

(10) The license may be modified or terminated, consistent with this subpart, upon mutual agreement of NASA and the licensee.

(11) Nothing relating to the grant of a license, nor the grant itself, shall be construed to confer upon any person any immunity from or defenses under the antitrust laws or from a charge of patent misuse, and the acquisition and use of rights pursuant to this subpart shall not be immunized from the operation of state or Federal law by reason of the source of the grant.

Types of Licenses

§ 1245.205 Nonexclusive licenses.

(a) Availability of licenses.

Nonexclusive licenses may be granted under NASA inventions without publication of availability or notice of a prospective license.

(b) *Conditions.* In addition to the provisions of § 1245.204, the nonexclusive license may also provide that, after termination of a period specified in the license agreement, NASA may restrict the license to the fields of use or geographic areas, or both, in which the licensee has brought the invention to practical application and continues to make the benefits of the invention reasonably accessible to the public. However, such restriction shall be made only in order to grant an exclusive or partially exclusive license in accordance with this subpart.

§ 1245.206 Exclusive and partially exclusive licenses.

(a) Domestic licenses.

(1) *Availability of licenses.* Exclusive or partially exclusive licenses may be granted on NASA inventions: (i) 3 months after notice of the invention's availability has been announced in the Federal Register; or (ii) without such notice where NASA determines that expeditious granting of such a license will best serve the interests of the Federal Government and the public; and (iii) in either situation, specified in (a)(1)(i) or (ii) of this section only if:

(A) Notice of a prospective license, identifying the invention and the prospective licensee, has been published in the Federal Register, providing opportunity for filing written objections within a 60-day period;

(B) After expiration of the period in § 1245.206(a)(1)(iii)(A) and consideration of any written objections received during the period, NASA has determined that:

(1) The interests of the Federal Government and the public will best be served by the proposed license, in view of the applicant's intentions, plans, and ability to bring the invention to practical application or otherwise promote the invention's utilization by the public;

(2) The desired practical application has not been achieved, or is not likely expeditiously to be achieved, under any nonexclusive license which has been granted, or which may be granted, on the invention;

(3) Exclusive or partially exclusive licensing is a reasonable and necessary incentive to call forth the investment of risk capital and expenditures to bring the invention to practical application or

otherwise promote the invention's utilization by the public; and

(4) The proposed terms and scope of exclusivity are not greater than reasonably necessary to provide the incentive for bringing the invention to practical application or otherwise promote the invention's utilization by the public;

(C) NASA has not determined that the grant of such license will tend substantially to lessen competition or result in undue concentration in any section of the country in any line of commerce to which the technology to be licensed relates, or to create or maintain other situations inconsistent with the antitrust laws; and

(D) NASA has given first preference to any small business firms submitting plans that are determined by the agency to be within the capabilities of the firms and as equally likely, if executed, to bring the invention to practical application as any plans submitted by applicants that are not small business firms.

(2) *Conditions.* In addition to the provisions of § 1245.204, the following terms and conditions apply to domestic exclusive and partially exclusive licenses:

(i) The license shall be subject to the irrevocable, royalty-free right of the Government of the United States to practice and have practiced the invention on behalf of the United States and on behalf of any foreign government or international organization pursuant to any existing or future treaty or agreement with the United States.

(ii) The license shall reserve to NASA the right to require the licensee to grant sublicenses to responsible applicants, on reasonable terms, when necessary to fulfill health or safety needs.

(iii) The license shall be subject to any licenses in force at the time of the grant of the exclusive or partially exclusive license.

(iv) The license may grant the licensee the right of enforcement of the licensed patent pursuant to the provisions of Chapter 29 of Title 35, United States Code, or other statutes, as determined appropriate in the public interest.

(b) Foreign licenses.

(1) *Availability of licenses.* Exclusive or partially exclusive licenses may be granted on a NASA invention covered by a foreign patent, patent application, or other form of protection, provided that:

(i) Notice of a prospective license, identifying the invention and prospective licensee, has been published in the Federal Register, providing opportunity for filing written objections

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within a 60-day period and following consideration of such objections;

(ii) NASA has considered whether the interests of the Federal Government or United States industry in foreign commerce will be enhanced; and

(iii) NASA has not determined that the grant of such license will tend substantially to lessen competition or result in undue concentration in any section of the United States in any line of commerce to which the technology to be licensed relates, or to create or maintain other situations inconsistent with antitrust laws.

(2) *Conditions.* In addition to the provisions of § 1245.204, the following terms and conditions apply to foreign exclusive and partially exclusive licenses:

(i) The license shall be subject to the irrevocable, royalty-free right of the Government of the United States to practice and have practiced the invention on behalf of the United States and on behalf of any foreign government or international organization pursuant to any existing or future treaty or agreement with the United States.

(ii) The license shall be subject to any licenses in force at the time of the grant of the exclusive or partially exclusive license.

(iii) The license may grant the licensee the right to take any suitable and necessary actions to protect the licensed property, on behalf of the Federal Government.

(c) *Record of determinations.* NASA shall maintain a record of determinations to grant exclusive or partially exclusive licenses.

Procedures

§ 1245.207 Application for a license.

An application for a license should be addressed to the Patent Counsel at the NASA installation having responsibility for the invention and shall normally include:

(a) Identification of the invention for which the license is desired, including the patent application serial number or patent number, title, and date, if known;

(b) Identification of the type of license for which the application is submitted;

(c) Name and address of the person, company, or organization applying for the license and the citizenship or place of incorporation of the applicant;

(d) Name, address, and telephone number of representative of applicant to whom correspondence should be sent;

(e) Nature and type of applicant's business, identifying products or services which the applicant has successfully commercialized, and

approximate number of applicant's employees;

(f) Source of information concerning the availability of a license on the invention;

(g) A statement indicating whether applicant is a small business firm as defined in § 1245.202(c);

(h) A detailed description of applicant's plan for development or marketing of the invention, or both, which should include:

(1) A statement of the time, nature and amount of anticipated investment of capital and other resources which applicant believes will be required to bring the invention to practical application;

(2) A statement as to applicant's capability and intention to fulfill the plan, including information regarding manufacturing, marketing, financial, and technical resources;

(3) A statement of the fields of use for which applicant intends to practice the invention; and

(4) A statement of the geographic areas in which applicant intends to manufacture any products embodying the invention and geographic areas where applicant intends to use or sell the invention, or both;

(i) Identification of licenses previously granted to applicant under Federally owned inventions;

(j) A statement containing applicant's best knowledge of the extent to which the invention is being practiced by private industry or Government, or both, or is otherwise available commercially; and

(k) Any other information which applicant believes will support a determination to grant the license to applicant.

§ 1245.208 Processing applications.

(a) Applications for licenses will be initially reviewed by the Patent Counsel of the NASA installation having responsibility for the invention. The Patent Counsel shall make a preliminary recommendation to the Director of Licensing, NASA Headquarters, whether to: (1) grant the license as requested, (2) grant the license with modification after negotiation with the licensee, or (3) deny the license. The Director of Licensing shall review the preliminary recommendation of the Patent Counsel and make a final recommendation to the NASA Assistant General Counsel for Patent Matters. Such review and final recommendation may include, and be based on, any additional information obtained from applicant and other sources that the Patent Counsel and the Director of Licensing deem relevant to

the license requested. The determination to grant or deny the license shall be made by the Assistant General Counsel for Patent Matters based on the final recommendation of the Director of Licensing.

(b) When notice of a prospective exclusive or partially exclusive license is published in the Federal Register in accordance with § 1245.206(a)(1)(iii)(A) or § 1245.206(b)(1)(i), any written objections received in response thereto will be considered by the Director of Licensing in making the final recommendation to the Assistant General Counsel for Patent Matters.

(c) If the requested license, including any negotiated modifications, is denied by the Assistant General Counsel for Patent Matters, the applicant may request reconsideration by filing a written request for reconsideration within 30 days after receiving notice of denial. This 30-day period may be extended for good cause.

(d) In addition to, or in lieu of requesting reconsideration, the applicant may also appeal the denial of the license in accordance with § 1245.211.

§ 1245.209 Notice to Attorney General.

A copy of the notice provided for in §§ 1245.206(a)(1)(iii)(A), and 1245.206(b)(1)(i) will be sent to the Attorney General.

§ 1245.210 Modification and termination of licenses.

Before modifying or terminating a license, other than by mutual agreement, NASA shall furnish the licensee and any sublicensee of record a written notice of intention to modify or terminate the license, and the licensee and any sublicensee shall be allowed 30 days after such notice to remedy any breach of the license or show cause why the license should not be modified or terminated.

§ 1245.211 Appeals.

(a) The following parties may appeal to the NASA Administrator or designee any decision or determination concerning the grant, denial, interpretation, modification, or termination of a license:

(1) A person whose application for a license has been denied;

(2) A licensee whose license has been modified or terminated, in whole or in part; or

(3) A person who timely filed a written objection in response to the notice required by §§ 1245.206(a)(1)(iii)(A) or

PATENT LICENSING REGULATIONS

1245.208(b)(1)(i) and who can demonstrate to the satisfaction of NASA that such person may be damaged by the Agency action.

(b) Written notice of appeal must be filed within 30 days (or such other time as may be authorized for good cause shown) after receiving notice of the adverse decision or determination; including, an adverse decision following the request for reconsideration under § 1245.208(c). The notice of appeal, along with all supporting documentation should be addressed to the Administrator, National Aeronautics and Space Administration, Washington, DC 20546. Should the appeal raise a genuine dispute over material facts, fact-finding will be conducted by the NASA Inventions and Contributions Board. The person filing the appeal shall be

afforded an opportunity to be heard and to offer evidence in support of the appeal. The Chairperson of the Inventions and Contributions Board shall prepare written findings of fact and transmit them to the Administrator or designee. The decision on the appeal shall be made by the NASA Administrator or designee. There is no further right of administrative appeal from the decision of the Administrator or designee.

§ 1245.212 Protection and administration of inventions.

NASA may take any suitable and necessary steps to protect and administer rights to NASA inventions, either directly or through contract.

§ 1245.213 Transfer of custody.

NASA having custody of certain Federally owned inventions may transfer custody and administration in whole or in part, to another Federal agency, of the right, title, or interest in any such invention.

§ 1245.214 Confidentiality of information.

Title 35, United States Code, section 209, provides that any plan submitted pursuant to § 1245.207(h) and any report required by § 1245.204(b)(6) may be treated by NASA as commercial and financial information obtained from a person and privileged and confidential and not subject to disclosure under section 552 of Title 5 of the United States Code.

James M. Beggs,
Administrator.

October 15, 1981.

[FR Doc. 81-31809 Filed 10-30-81; 8:45 am]

BILLING CODE 7510-01-M

FOREIGN PATENT LICENSING REGULATIONS

Selected NASA inventions are also available for licensing in countries other than the United States in accordance with the NASA Foreign Patent Licensing Regulation (14 C.F.R. 1245.4), a copy of which is available from any NASA Patent Counsel. For abstracts of NASA-owned inventions available for licensing in countries other than the United States, see NASA SP-7038, "Significant NASA Inventions Available for Licensing in Countries Other Than the United States." A copy of this NASA publication is available from NASA Headquarters, Code GP-4, Washington, D.C., 20546

Subject Categories

(1969 - 1973)

01 Aerodynamics

Includes aerodynamics of bodies, combinations, internal flow in ducts and turbomachinery; wings, rotors, and control surfaces. For applications see: 02 Aircraft and 32 Space Vehicles. For related information see also: 12 Fluid Mechanics; and 33 Thermodynamics and Combustion.

02 Aircraft

Includes fixed-wing airplanes, helicopters, gliders, balloons, ornithopters, etc.; and specific types of complete aircraft (e.g., ground effect machines, STOL, and VTOL); flight tests; operating problems (e.g., sonic boom); safety and safety devices; economics; and stability and control. For basic research see: 01 Aerodynamics. For related information see also: 31 Space Vehicles; and 32 Structural Mechanics.

03 Auxiliary Systems

Includes fuel cells, energy conversion cells, and solar cells; auxiliary gas turbines; hydraulic, pneumatic and electrical systems; actuators; and inverters. For related information see also: 09 Electronic Equipment; 22 Nuclear Engineering; and 28 Propulsion Systems.

04 Biosciences

Includes aerospace medicine, exobiology, radiation effects on biological systems; physiological and psychological factors. For related information see also: 05 Biotechnology.

05 Biotechnology

Includes life support systems, human engineering; protective clothing and equipment; crew training and evaluation, and piloting. For related information see also: 04 Biosciences.

06 Chemistry

Includes chemical analysis and identification (e.g., spectroscopy). For applications see: 17 Materials, Metallic; 18 Materials, Nonmetallic; and 27 Propellants.

07 Communications

Includes communications equipment and techniques; noise; radio and communications blackout; modulation telemetry; tracking radar and optical observation; and wave propagation. For basic research see: 23 Physics, General; and 21 Navigation.

08 Computers

Includes computer operation and programming; and data processing. For applications, see specific categories. For related information see also: 19 Mathematics.

09 Electronic Equipment

Includes electronic test equipment and maintainability; component parts, e.g., electron tubes, tunnel diodes, transistors, integrated circuitry; microminiaturization. For basic research see: 10 Electronics. For related information see also: 07 Communications and 21 Navigation.

10 Electronics

Includes circuit theory; and feedback and control theory. For applications see: 09 Electronic Equipment. For related information see specific Physics categories.

11 Facilities, Research and Support

Includes airports; lunar and planetary bases including associated vehicles; ground support systems; related logistics; simulators; test facilities (e.g., rocket engine test stands, shock tubes, and wind tunnels); test ranges; and tracking stations.

12 Fluid Mechanics

Includes boundary-layer flow; compressible flow; gas dynamics; hydrodynamics; and turbulence. For related information see also: 01 Aerodynamics; and 33 Thermodynamics and Combustion.

13 Geophysics

Includes aeronomy; upper and lower atmosphere studies; oceanography; cartography; and geodesy. For related information see also: 20 Meteorology; 29 Space Radiation; and 30 Space Sciences.

14 Instrumentation and Photography

Includes design, installation, and testing of instrumentation systems; gyroscopes; measuring instruments and gages; recorders, transducers; aerial photography; and telescopes and cameras.

15 Machine Elements and Processes

Includes bearings, seals, pumps, and other mechanical equipment; lubrication, friction, and wear; manufacturing processes and quality control; reliability; drafting; and materials fabrication, handling, and inspection.

16 Masers

Includes applications of masers and lasers. For basic research see: 26 Physics, Solid-State.

17 Materials, Metallic

Includes cermets; corrosion; physical and mechanical properties of materials; metallurgy; and applications as structural materials. For basic research see: 06 Chemistry. For related information see also: 18 Materials, Nonmetallic; and 32 Structural Mechanics.

18 Materials, Nonmetallic

Includes corrosion; physical and mechanical properties of materials (e.g., plastics); and elastomers, hydraulic fluids, etc. For basic research see: 06 Chemistry. For related information see also: 17 Materials, Metallic; 27 Propellants; and 32 Structural Mechanics.

19 Mathematics

Includes calculation methods and theory; and numerical analysis. For applications see specific categories. For related information see also: 08 Computers.

20 Meteorology

Includes climatology; weather forecasting; and visibility studies. For related information see also: 13 Geophysics; and 30 Space Sciences.

21 Navigation

Includes guidance; autopilots; star and planet tracking; inertial platforms; and air traffic control. For related information see also: 07 Communications.

22 Nuclear Engineering

Includes nuclear reactors and nuclear heat sources used for propulsion and auxiliary power. For basic research see: 24 Physics, Atomic, Molecular, and Nuclear. For related information see also: 03 Auxiliary Systems; and 28 Propulsion Systems.

23 Physics, General

Includes acoustics, cryogenics, mechanics, and optics. For astrophysics see: 30 Space Sciences. For geophysics and related information see also: 13 Geophysics, 20 Meteorology, and 29 Space Radiation.

24 Physics, Atomic, Molecular, and Nuclear

Includes atomic, molecular and nuclear physics. For applications see: 22 Nuclear Engineering. For related information see also: 29 Space Radiation.

25 Physics, Plasma

Includes magnetohydrodynamics. For applications see: 28 Propulsion Systems.

26 Physics, Solid-State

Includes semiconductor theory; and superconductivity. For applications see: 16 Masers. For related information see also: 10 Electronics.

27 Propellants

Includes fuels; igniters; and oxidizers. For basic research see: 06 Chemistry; and 33 Thermodynamics and Combustion. For related information see also 28 Propulsion Systems.

28 Propulsion Systems

Includes air breathing; electric, liquid, solid, and magnetohydrodynamic propulsion. For nuclear propulsion see: 22 Nuclear Engineering. For basic research see: 23 Physics, General; and 33 Thermodynamics and Combustion. For applications see: 31 Space Vehicles. For related information see also: 27 Propellants.

29 Space Radiation

Includes cosmic radiation; solar flares; solar radiation; and Van Allen radiation belts. For related information see also: 13 Geophysics, and 24 Physics, Atomic, Molecular, and Nuclear.

30 Space Sciences

Includes astronomy and astrophysics; cosmology; lunar and planetary flight and exploration; and theoretical analysis of orbits and trajectories. For related information see also: 11 Facilities, Research and Support; and 31 Space Vehicles.

31 Space Vehicles

Includes launch vehicles; manned space capsules; clustered and multistage rockets; satellites; sounding rockets and probes; and operating problems. For basic research see: 30 Space Sciences. For related information see also: 28 Propulsion Systems; and 32 Structural Mechanics.

32 Structural Mechanics

Includes structural element design and weight analysis; fatigue; thermal stress; impact phenomena; vibration; flutter; inflatable structures; and structural tests. For related information see also: 17 Materials, Metallic; and 18 Materials, Nonmetallic.

33 Thermodynamics and Combustion

Includes ablation, cooling, heating, heat transfer, thermal balance, and other thermal effects; and combustion theory. For related information see also: 12 Fluid Mechanics; and 27 Propellants.

34 General

Includes information of a broad nature related to industrial applications and technology, and to basic research; defense aspects; information retrieval; management; law and related legal matters; and legislative hearings and documents.

TABLE OF CONTENTS

Section 1 • Abstracts

Subject Categories (1974 -)

AERONAUTICS

Includes aeronautics (general); aerodynamics; air transportation and safety; aircraft communications and navigation; aircraft design, testing and performance; aircraft instrumentation; aircraft propulsion and power; aircraft stability and control; and research and support facilities (air).

For related information see also *Astroautics*.

01 AERONAUTICS (GENERAL)

02 AERODYNAMICS

Includes aerodynamics of bodies, combinations, wings, rotors, and control surfaces; and internal flow in ducts and turbomachinery.

For related information see also *34 Fluid Mechanics and Heat Transfer*.

03 AIR TRANSPORTATION AND SAFETY

Includes passenger and cargo air transport operations; and aircraft accidents.

For related information see also *16 Space Transportation* and *85 Urban Technology and Transportation*.

04 AIRCRAFT COMMUNICATIONS AND NAVIGATION

Includes digital and voice communication with aircraft; air navigation systems (satellite and ground based); and air traffic control.

For related information see also *17 Spacecraft Communications, Command and Tracking* and *32 Communications*.

05 AIRCRAFT DESIGN, TESTING AND PERFORMANCE

Includes aircraft simulation technology.

For related information see also *18 Spacecraft Design, Testing and Performance* and *39 Structural Mechanics*.

06 AIRCRAFT INSTRUMENTATION

Includes cockpit and cabin display devices; and flight instruments.

For related information see also *19 Spacecraft Instrumentation* and *35 Instrumentation and Photography*.

07 AIRCRAFT PROPULSION AND POWER

Includes prime propulsion systems and systems components, e.g., gas turbine engines and compressors; and on-board auxiliary power plants for aircraft.

For related information see also *20 Spacecraft Propulsion and Power*, *28 Propellants and Fuels*, and *44 Energy Production and Conversion*.

08 AIRCRAFT STABILITY AND CONTROL

Includes aircraft handling qualities; piloting; flight controls; and autopilots.

09 RESEARCH AND SUPPORT FACILITIES (AIR)

Includes airports, hangars and runways; aircraft repair and overhaul facilities; wind tunnels; shock tube facilities; and engine test blocks.

For related information see also *14 Ground Support Systems and Facilities (Space)*.

ASTRONAUTICS

Includes astronautics (general); astrodynamics; ground support systems and facilities (space); launch vehicles and space vehicles; space transportation; spacecraft communications, command and tracking; spacecraft design, testing and performance; spacecraft instrumentation; and spacecraft propulsion and power.

For related information see also *Aeronautics*.

12 ASTRONAUTICS (GENERAL)

For extraterrestrial exploration see *91 Lunar and Planetary Exploration*.

13 ASTRODYNAMICS

Includes powered and free-flight trajectories; and orbit and launching dynamics.

14 GROUND SUPPORT SYSTEMS AND FACILITIES (SPACE)

Includes launch complexes, research and production facilities; ground support equipment, e.g., mobile transporters; and simulators.

For related information see also *09 Research and Support Facilities (Air)*.

15 LAUNCH VEHICLES AND SPACE VEHICLES

Includes boosters; manned orbital laboratories; reusable vehicles; and space stations.

16 SPACE TRANSPORTATION

Includes passenger and cargo space transportation, e.g., shuttle operations; and rescue techniques.

For related information see also *04 Air Transportation and Safety* and *85 Urban Technology and Transportation*.

17 SPACECRAFT COMMUNICATION, COMMAND AND TRACKING

Includes telemetry; space communications networks; astronavigation; and radio blackout.

For related information see also *04 Aircraft Communications and Navigation* and *32 Communications*.

18 SPACECRAFT DESIGN, TESTING AND PERFORMANCE

Includes spacecraft thermal and environmental control; and attitude control.

For life support systems see *54 Man/System Technology and Life Support*. For related information see also *05 Aircraft Design, Testing and Performance* and *39 Structural Mechanics*.

19 SPACECRAFT INSTRUMENTATION

For related information see also *06 Aircraft Instrumentation* and *35 Instrumentation and Photography*.

20 SPACECRAFT PROPULSION AND POWER

Includes main propulsion systems and components, e.g., rocket engines; and spacecraft auxiliary power sources.

For related information see also *07 Aircraft Propulsion and Power*, *28 Propellants and Fuels*, and *44 Energy Production and Conversion*.

CHEMISTRY AND MATERIALS

Includes chemistry and materials (general); composite materials; inorganic and physical chemistry; metallic materials; nonmetallic materials; and propellants and fuels.

23 CHEMISTRY AND MATERIALS (GENERAL)

Includes biochemistry and organic chemistry.

24 COMPOSITE MATERIALS

Includes laminates.

25 INORGANIC AND PHYSICAL CHEMISTRY

Includes chemical analysis, e.g., chromatography; combustion theory; electrochemistry; and photochemistry.

For related information see also 77 *Thermodynamics and Statistical Physics*.

26 METALLIC MATERIALS

Includes physical, chemical, and mechanical properties of metals, e.g., corrosion; and metallurgy.

27 NONMETALLIC MATERIALS

Includes physical, chemical, and mechanical properties of plastics, elastomers, lubricants, polymers, textiles, adhesives, and ceramic materials.

28 PROPELLANTS AND FUELS

Includes rocket propellants, igniters, and oxidizers; storage and handling; and aircraft fuels.

For related information see also 07 *Aircraft Propulsion and Power*, 20 *Spacecraft Propulsion and Power*, and 44 *Energy Production and Conversion*.

ENGINEERING

Includes engineering (general); communications; electronics and electrical engineering; fluid mechanics and heat transfer; instrumentation and photography; lasers and masers; mechanical engineering; quality assurance and reliability; and structural mechanics.

For related information see also *Physics*.

31 ENGINEERING (GENERAL)

Includes vacuum technology; control engineering; display engineering; and cryogenics.

32 COMMUNICATIONS

Includes land and global communications; communications theory; and optical communications.

For related information see also 04 *Aircraft Communications and Navigation* and 17 *Spacecraft Communications, Command and Tracking*.

33 ELECTRONICS AND ELECTRICAL ENGINEERING

Includes test equipment and maintainability; components, e.g., tunnel diodes and transistors; micro-miniaturization; and integrated circuitry.

For related information see also 60 *Computer Operations and Hardware* and 76 *Solid-State Physics*.

34 FLUID MECHANICS AND HEAT TRANSFER

Includes boundary layers; hydrodynamics; fluidics; mass transfer; and ablation cooling.

For related information see also 02 *Aerodynamics* and 77 *Thermodynamics and Statistical Physics*.

35 INSTRUMENTATION AND PHOTOGRAPHY

Includes remote sensors; measuring instruments and gages; detectors; cameras and photographic supplies; and holography.

For aerial photography see 43 *Earth Resources*. For related information see also 06 *Aircraft Instrumentation* and 19 *Spacecraft Instrumentation*.

36 LASERS AND MASERS

Includes parametric amplifiers.

37 MECHANICAL ENGINEERING

Includes auxiliary systems (non-power); machine elements and processes; and mechanical equipment.

38 QUALITY ASSURANCE AND RELIABILITY

Includes product sampling procedures and techniques; and quality control.

39 STRUCTURAL MECHANICS

Includes structural element design and weight analysis; fatigue; and thermal stress.

For applications see 05 *Aircraft Design, Testing and Performance* and 18 *Spacecraft Design, Testing and Performance*.

GEOSCIENCES

Includes geosciences (general); earth resources; energy production and conversion; environment pollution; geophysics; meteorology and climatology; and oceanography.

For related information see also *Space Sciences*.

42 GEOSCIENCES (GENERAL)

43 EARTH RESOURCES

Includes remote sensing of earth resources by aircraft and spacecraft; photogrammetry; and aerial photography.

For instrumentation see 35 *Instrumentation and Photography*.

44 ENERGY PRODUCTION AND CONVERSION

Includes specific energy conversion systems, e.g., fuel cells and batteries; global sources of energy; fossil fuels; geophysical conversion; hydroelectric power; and wind power.

For related information see also 07 *Aircraft Propulsion and Power*, 20 *Spacecraft Propulsion and Power*, 28 *Propellants and Fuels*, and 85 *Urban Technology and Transportation*.

45 ENVIRONMENT POLLUTION

Includes air, noise, thermal and water pollution; environment monitoring; and contamination control.

46 GEOPHYSICS

Includes aeronomy; upper and lower atmosphere studies; ionospheric and magnetospheric physics; and geomagnetism.

For space radiation see 93 *Space Radiation*.

47 METEOROLOGY AND CLIMATOLOGY

Includes weather forecasting and modification.

48 OCEANOGRAPHY

Includes biological, dynamic and physical oceanography; and marine resources.

LIFE SCIENCES

Includes sciences (general); aerospace medicine; behavioral sciences; man/system technology and life support; and planetary biology.

51 LIFE SCIENCES (GENERAL)

Includes genetics.

52 AEROSPACE MEDICINE

Includes physiological factors; biological effects of radiation; and weightlessness.

53 BEHAVIORAL SCIENCES

Includes psychological factors; individual and group behavior; crew training and evaluation; and psychiatric research.

54 MAN/SYSTEM TECHNOLOGY AND LIFE SUPPORT

Includes human engineering; biotechnology; and space suits and protective clothing.

55 PLANETARY BIOLOGY

Includes exobiology; and extraterrestrial life.

MATHEMATICAL AND COMPUTER SCIENCES

Includes mathematical and computer sciences (general); computer operations and hardware; computer programming and software; computer systems; cybernetics; numerical analysis; statistics and probability; systems analysis; and theoretical mathematics.

59 MATHEMATICAL AND COMPUTER SCIENCES (GENERAL)

60 COMPUTER OPERATIONS AND HARDWARE

Includes computer graphics and data processing.
For components see *33 Electronics and Electrical Engineering*.

61 COMPUTER PROGRAMMING AND SOFTWARE

Includes computer programs, routines, and algorithms.

62 COMPUTER SYSTEMS

Includes computer networks.

63 CYBERNETICS

Includes feedback and control theory.
For related information see also *54 Man/System Technology and Life Support*.

64 NUMERICAL ANALYSIS

Includes iteration, difference equations, and numerical approximation.

65 STATISTICS AND PROBABILITY

Includes data sampling and smoothing; Monte Carlo method; and stochastic processes.

66 SYSTEMS ANALYSIS

Includes mathematical modeling; network analysis; and operations research.

67 THEORETICAL MATHEMATICS

Includes topology and number theory.

PHYSICS

Includes physics (general); acoustics; atomic and molecular physics; nuclear and high-energy physics; optics; plasma physics; solid-state physics; and thermodynamics and statistical physics.

For related information see also *Engineering*.

70 PHYSICS (GENERAL)

For geophysics see *46 Geophysics*. For astrophysics see *90 Astrophysics*. For solar physics see *92 Solar Physics*.

71 ACOUSTICS

Includes sound generation, transmission, and attenuation.

For noise pollution see *45 Environment Pollution*.

72 ATOMIC AND MOLECULAR PHYSICS

Includes atomic structure and molecular spectra.

73 NUCLEAR AND HIGH-ENERGY PHYSICS

Includes elementary and nuclear particles; and reactor theory.

For space radiation see *93 Space Radiation*.

74 OPTICS

Includes light phenomena.

75 PLASMA PHYSICS

Includes magnetohydrodynamics and plasma fusion.

For ionospheric plasmas see *46 Geophysics*. For space plasmas see *90 Astrophysics*.

76 SOLID-STATE PHYSICS

Includes superconductivity.

For related information see also *33 Electronics and Electrical Engineering* and *36 Lasers and Masers*.

77 THERMODYNAMICS AND STATISTICAL PHYSICS

Includes quantum mechanics; and Bose and Fermi statistics.

For related information see also *25 Inorganic and Physical Chemistry* and *34 Fluid Mechanics and Heat Transfer*.

SOCIAL SCIENCES

Includes social sciences (general); administration and management; documentation and information science; economics and cost analysis; law and political science; and urban technology and transportation.

80 SOCIAL SCIENCES (GENERAL)

Includes educational matters.

81 ADMINISTRATION AND MANAGEMENT

Includes management planning and research.

**82 DOCUMENTATION AND
INFORMATION SCIENCE**

Includes information storage and retrieval technology; micrography; and library science.

For computer documentation see *61 Computer Programming and Software*.

83 ECONOMICS AND COST ANALYSIS

Includes cost effectiveness studies.

84 LAW AND POLITICAL SCIENCE

Includes space law; international law; international cooperation; and patent policy.

**85 URBAN TECHNOLOGY AND
TRANSPORTATION**

Includes applications of space technology to urban problems; technology transfer; technology assessment; and surface and mass transportation.

For related information see *03 Air Transportation and Safety*, *16 Space Transportation*, and *44 Energy Production and Conversion*.

SPACE SCIENCES

Includes space sciences (general); astronomy; astrophysics; lunar and planetary exploration; solar physics; and space radiation.

For related information see also *Geosciences*.

88 SPACE SCIENCES (GENERAL)

89 ASTRONOMY

Includes radio and gamma-ray astronomy; celestial mechanics; and astrometry.

90 ASTROPHYSICS

Includes cosmology; and interstellar and interplanetary gases and dust.

**91 LUNAR AND PLANETARY
EXPLORATION**

Includes planetology; and manned and unmanned flights.

For spacecraft design see *18 Spacecraft Design, Testing and Performance*. For space stations see *15 Launch Vehicles and Space Vehicles*.

92 SOLAR PHYSICS

Includes solar activity, solar flares, solar radiation and sunspots.

93 SPACE RADIATION

Includes cosmic radiation; and inner and outer earth's radiation belts.

For biological effects of radiation see *52 Aerospace Medicine*. For theory see *73 Nuclear and High-Energy Physics*.

GENERAL

99 GENERAL

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[NASA-CASE-XGS-04548] c 15 N71-24045
Radiation deployment actuator Patent
[NASA-CASE-MSC-11817-1] c 15 N71-26611
Electromechanical control actuator system Patent
[NASA-CASE-ERC-10022] c 15 N71-26635
Energy limiter for hydraulic actuators Patent
[NASA-CASE-ARC-10131-1] c 15 N71-27754

Telemetry actuated switch
[NASA-CASE-ARC-10105] c 09 N72-17153
Mechanically actuated triggered hand
[NASA-CASE-MFS-20413] c 15 N72-21463
Hermetically sealed elbow actuator
[NASA-CASE-MFS-14710] c 09 N72-22195
Ball screw linear actuator
[NASA-CASE-NPO-11222] c 15 N72-25456
Rotary actuator
[NASA-CASE-NPO-10244] c 15 N72-26371
Gas operated actuator
[NASA-CASE-NPO-11340] c 15 N72-33477
Redundant hydraulic control system for actuators
[NASA-CASE-MFS-20944] c 15 N73-13466
Electrolytic gas operated actuator
[NASA-CASE-NPO-11369] c 15 N73-13467
Manual actuator --- for spacecraft exercising machines
[NASA-CASE-MFS-21481-1] c 37 N74-18127
Optically actuated two position mechanical mover
[NASA-CASE-NPO-13105-1] c 37 N74-21060
Dual output variable pitch turbofan actuation system
[NASA-CASE-LEW-12419-1] c 07 N77-14025
Actuator device for artificial leg
[NASA-CASE-MFS-23225-1] c 52 N77-14735
Cyclical bi-directional rotary actuator
[NASA-CASE-GSC-11883-1] c 37 N77-19458
Actuator mechanism
[NASA-CASE-GSC-11883-2] c 37 N78-31426
Pressure limiting propellant actuating system
[NASA-CASE-MSC-18179-1] c 20 N80-18097
Phase-angle controller for Stirling engines
[NASA-CASE-NPO-14388-1] c 37 N81-17432
Electrical servo actuator bracket --- fuel control valves on jet engines
[NASA-CASE-FRC-11044-1] c 37 N81-33483
Tubing and cable cutting tool
[NASA-CASE-LAR-12786-1] c 37 N82-20545
Hydraulic actuator mechanism to control aircraft spoiler movements through dual input commands
[NASA-CASE-LAR-12412-1] c 08 N82-24205
Solar powered actuator with continuously variable auxiliary power control
[NASA-CASE-MFS-25637-1] c 44 N82-26780
Thumb actuated two axis controller
[NASA-CASE-ARC-11372-1] c 08 N83-12098
Magnetically actuated compressor
[NASA-CASE-GSC-12799-1] c 37 N83-20153
Rotary stepping device with memory metal actuator
[NASA-CASE-NPO-15482-1] c 37 N83-36484
Memory metal actuator --- for use in electromechanical servomechanisms
[NASA-CASE-NPO-15960-1] c 37 N83-36485
Synchronously deployable truss structure
[NASA-CASE-LAR-13117-1] c 18 N84-16250

ADAPTERS

Image magnification adapter for cameras Patent
[NASA-CASE-XMF-03844-1] c 14 N71-26474
Self-indexing latch system
[NASA-CASE-MFS-25956-1] c 37 N84-20860

ADAPTIVE CONTROL

Self-testing and repairing computer Patent
[NASA-CASE-NPO-10567] c 08 N71-24633
Synchronous dc direct drive system Patent
[NASA-CASE-GSC-10065-1] c 10 N71-27136
Ergometer
[NASA-CASE-MFS-21109-1] c 05 N73-27941
Adaptive voting computer system
[NASA-CASE-MSC-13932-1] c 62 N74-14920
Adaptive polarization separation
[NASA-CASE-LAR-12196-1] c 33 N81-26358
Apparatus for damping operator induced oscillations of a controlled system --- flight control
[NASA-CASE-FRC-11041-1] c 33 N82-18493
Adaptive reference voltage generator for firing angle control of line-commutated inverters
[NASA-CASE-MFS-25215-1] c 33 N83-31953
Adaptive control system for line-commutated inverters
[NASA-CASE-MFS-25209-1] c 33 N83-35227

ADAPTIVE FILTERS

Adaptive tracking notch filter system Patent
[NASA-CASE-XMF-01892] c 10 N71-22986
Apparatus for damping operator induced oscillations of a controlled system --- flight control
[NASA-CASE-FRC-11041-1] c 33 N82-18493

ADAPTIVE OPTICS

Fluorescent radiation converter
[NASA-CASE-GSC-12528-1] c 74 N81-24900

ADDING CIRCUITS

Full binary adder Patent
[NASA-CASE-XGS-00689] c 08 N70-34787
Automatic fault correction system for parallel signal channels Patent
[NASA-CASE-XNP-03263] c 09 N71-18843

ADDITION RESINS

Tackifier for addition polyimides containing monoethylphthalate
[NASA-CASE-LAR-12642-1] c 27 N81-29229

ADDITIVES

Ammonium perchlorate composite propellant containing an organic transitional, metal chelate catalytic additive Patent
[NASA-CASE-LAR-10173-1] c 27 N71-14090
Sewage sludge additive
[NASA-CASE-NPO-13877-1] c 45 N82-11634
Improved high temperature resistant polyimides
[NASA-CASE-LEW-13864-1] c 27 N83-17715
Toughening reinforced epoxy composites with brominated polymeric additives
[NASA-CASE-ARC-11427-1] c 24 N83-25791

ADDRESSING

Automatic multi-banking of memory for microprocessors
[NASA-CASE-NPO-15295-1] c 60 N82-11785

ADENOSINE TRIPHOSPHATE

Use of the enzyme hexokinase for the reduction of inherent light levels
[NASA-CASE-XGS-05533] c 04 N69-27487
Light detection instrument Patent
[NASA-CASE-XGS-05534] c 23 N71-16355
Lyophilized reaction mixtures Patent
[NASA-CASE-XGS-05532] c 06 N71-17705
Automatic instrument for chemical processing to detect microorganism in biological samples by measuring light reactions
[NASA-CASE-GSC-11169-2] c 05 N73-32011
Application of luciferase assay for ATP to antimicrobial drug susceptibility
[NASA-CASE-GSC-12039-1] c 51 N77-22794
Rapid, quantitative determination of bacteria in water --- adenosine triphosphate
[NASA-CASE-GSC-12158-1] c 51 N83-27569

ADHESION

Stud-bonding gun
[NASA-CASE-MFS-20299] c 15 N72-11392
Improved refractory coatings --- sputtered coatings on substrates that form stable nitrides
[NASA-CASE-LEW-23169-2] c 26 N81-16209
Refractory coatings
[NASA-CASE-LEW-13169-2] c 26 N82-30371

ADHESION TESTS

Apparatus for the determination of the existence or non-existence of a bonding between two members Patent
[NASA-CASE-MFS-13686] c 15 N71-18132
High performance filleting sealant
[NASA-CASE-ARC-11409-1] c 27 N82-32490

ADHESIVE BONDING

Solar cell mounting Patent
[NASA-CASE-XNP-00826] c 03 N71-20895
Honeycomb panel and method of making same Patent
[NASA-CASE-XMF-01402] c 18 N71-21651
Etching of aluminum for bonding Patent
[NASA-CASE-XMF-02303] c 17 N71-23828
Method and apparatus for attaching physiological monitoring electrodes Patent
[NASA-CASE-XFR-07658-1] c 05 N71-26293
Bonding of sapphire to sapphire by eutectic mixture of aluminum oxide and zirconium oxide
[NASA-CASE-GSC-11577-1] c 37 N75-15992
Weld-bonded titanium structures
[NASA-CASE-LAR-11549-1] c 37 N77-11397
Method of adhering bone to a rigid substrate using a graphite fiber reinforced bone cement
[NASA-CASE-NPO-13764-1] c 27 N78-17215
Thermal barrier coating system
[NASA-CASE-LEW-12554-1] c 34 N78-18355
Thermal insulation attaching means --- adhesive bonding of felt vibration insulators under ceramic tiles
[NASA-CASE-MS-C-12619-2] c 27 N79-12221
Surface finishing
[NASA-CASE-MS-C-12631-3] c 27 N81-14077
Method of bonding plasticized elastomer to metal and articles produced thereby
[NASA-CASE-MFS-25181-1] c 27 N82-24340
Elastomer toughened polyimide adhesives
[NASA-CASE-LAR-12775] c 27 N83-29390
A solvent resistant, thermoplastic aromatic poly(midesulfone) and process for preparing same
[NASA-CASE-LAR-12858-2] c 27 N83-29391
Thermal barrier coating system having improved adhesion
[NASA-CASE-LEW-1335901] c 27 N83-31855

ADHESIVES

Polyimide adhesives
[NASA-CASE-LAR-11397-1] c 27 N75-29263
Polyimide adhesives
[NASA-CASE-LAR-12181-1] c 27 N78-17205

Crystalline polyimides --- reinforcing fibers for high temperature composites and adhesives as well as flame retardation

[NASA-CASE-LAR-12099-1] c 27 N80-16158
Aluminum ion-containing polyimide adhesives
[NASA-CASE-LAR-12640-1] c 27 N82-11206
Thermal protection system
[NASA-CASE-MS-C-18796-1] c 24 N82-26389
Procedure for internally mounting strain gauges
[NASA-CASE-GSC-12824-1] c 35 N83-13424
Elastomer toughened polyimide adhesives
[NASA-CASE-LAR-12775-1] c 27 N83-28240
Hot melt adhesive attachment pad
[NASA-CASE-LAR-12894-1] c 27 N83-34044
Hot melt recharge system --- repairing damaged or missing tiles on space shuttle orbiter
[NASA-CASE-LAR-12881-1] c 27 N84-14323
Hot melt recharge system --- space maintenance
[NASA-CASE-LAR-12881-2] c 27 N84-15271
Process for improving moisture resistance of epoxy resins by addition of cobalt ions --- potential applications to composite matrix resins, adhesives, and casting resins for aerospace utilization
[NASA-CASE-LAR-13230-1] c 27 N84-20701

ADJUSTING

Instrument support with precise lateral adjustment Patent
[NASA-CASE-XMF-00480] c 14 N70-39898
Fine adjustment mount
[NASA-CASE-MFS-20249] c 15 N72-11386
Adjustable support
[NASA-CASE-NPO-10721] c 15 N72-27484
Clock setter
[NASA-CASE-LAR-11458-1] c 35 N76-16392

AERIAL RUDDERS

Thrust augmented spin recovery device
[NASA-CASE-LAR-11970-2] c 08 N81-19130

AEROACOUSTICS

Acoustically swept rotor --- helicopter noise reduction
[NASA-CASE-ARC-11106-1] c 05 N80-14107

AERODYNAMIC BALANCE

Apparatus for and method of compensating dynamic unbalance
[NASA-CASE-GSC-12550-1] c 37 N81-22358

AERODYNAMIC BRAKES

Annular supersonic decelerator or drogue Patent
[NASA-CASE-XLE-00222] c 02 N70-37939
Lightweight, variable solidity knitted parachute fabric --- for aerodynamic decelerators
[NASA-CASE-LAR-10776-1] c 02 N74-10034

AERODYNAMIC CHARACTERISTICS

Variable sweep wing aircraft Patent
[NASA-CASE-XLA-00221] c 02 N70-33266
Flight craft Patent
[NASA-CASE-XAC-02058] c 02 N71-16087
Space shuttle vehicle and system
[NASA-CASE-MS-C-12433] c 31 N73-14854
Airfoil shape for flight at subsonic speeds --- design analysis and aerodynamic characteristics of the GAW-1 airfoil
[NASA-CASE-LAR-10585-1] c 02 N76-22154
Curved centerline air intake for a gas turbine engine
[NASA-CASE-LEW-13201-1] c 07 N81-14999

AERODYNAMIC COEFFICIENTS

Leading edge flap system for aircraft control augmentation
[NASA-CASE-LAR-12787-1] c 05 N82-25240

AERODYNAMIC CONFIGURATIONS

Variable-span aircraft Patent
[NASA-CASE-XLA-00166] c 02 N70-34178
Landing arrangement for aerial vehicle Patent
[NASA-CASE-XLA-00806] c 02 N70-34858
Space capsule Patent
[NASA-CASE-XLA-00149] c 31 N70-37938
Hypersonic reentry vehicle Patent
[NASA-CASE-XMS-04142] c 31 N70-41631
Translating horizontal tail Patent
[NASA-CASE-XLA-08801-1] c 02 N71-11043
Variable geometry manned orbital vehicle Patent
[NASA-CASE-XLA-03691] c 31 N71-15674
Nacelle afterbody for jet engines Patent
[NASA-CASE-XLA-10450] c 28 N71-21493
Variable geometry rotor system
[NASA-CASE-LAR-10557] c 02 N72-11018
Ferry system
[NASA-CASE-LAR-10574-1] c 11 N73-13257
Multistage aerospace craft --- perspective drawings of conceptual design
[NASA-CASE-XMF-02263] c 05 N74-10907
Supersonic fan blading --- noise reduction in turbofan engines
[NASA-CASE-LEW-11402-1] c 07 N74-28226
Free wing assembly for an aircraft
[NASA-CASE-FRC-10092-1] c 05 N79-12061
Wingtip vortex propeller
[NASA-CASE-LAR-13019-1] c 02 N84-20495

AERODYNAMIC DRAG

Skin friction measuring device for aircraft
[NASA-CASE-FRC-11029-1] c 06 N81-17057

AERODYNAMIC HEATING

Heat protection apparatus Patent
[NASA-CASE-XLA-00892] c 33 N71-17897
Heat flux measuring system Patent
[NASA-CASE-XFR-03802] c 33 N71-23085
Stand-off type ablative heat shield
[NASA-CASE-MS-C-12143-1] c 33 N72-17947

AERODYNAMIC LOADS

Propeller blade loading control Patent
[NASA-CASE-XAC-00139] c 02 N70-34856
Means for controlling aerodynamically induced twist
[NASA-CASE-LAR-12175-1] c 05 N82-28279

AERODYNAMIC NOISE

Apparatus for reducing aerodynamic noise in a wind tunnel
[NASA-CASE-MFS-23099-1] c 09 N76-23273
Acoustically swept rotor --- helicopter noise reduction
[NASA-CASE-ARC-11106-1] c 05 N80-14107
Curved centerline air intake for a gas turbine engine
[NASA-CASE-LEW-13201-1] c 07 N81-14999

AERODYNAMIC STABILITY

Meteorological balloon Patent
[NASA-CASE-XMF-04163] c 02 N71-23007
Instrument for measuring the dynamic behavior of liquids Patent
[NASA-CASE-XLA-05541] c 12 N71-26387
Emergency earth orbital escape device
[NASA-CASE-MS-C-13281] c 31 N72-18859
High lift aircraft --- with improved stability, control, performance, and noise characteristics
[NASA-CASE-LAR-11252-1] c 05 N75-25914
Hingeless helicopter rotor with improved stability
[NASA-CASE-ARC-10807-1] c 05 N77-17029
Annular wing
[NASA-CASE-FRC-11007-2] c 05 N82-26277
Aeroelastic instability stoppers for wind tunnel models
[NASA-CASE-LAR-12720-1] c 44 N83-21504
Wingtip vortex propeller
[NASA-CASE-LAR-13019-1] c 02 N84-20495

AERODYNAMIC STALLING

Aerodynamic side-force alleviator means
[NASA-CASE-LAR-12326-1] c 02 N81-14968

AEROELASTICITY

Aeroelastic instability stoppers for wind tunnel models
[NASA-CASE-LAR-12458-1] c 44 N83-21503
Aeroelastic instability stoppers for wind tunnel models
[NASA-CASE-LAR-12720-1] c 44 N83-21504

AERONAUTICAL ENGINEERING

Differential pressure cell Patent
[NASA-CASE-XAC-00042] c 14 N70-34816

AEROSOLS

Liquid aerosol dispenser
[NASA-CASE-MFS-20829] c 12 N72-21310
Particulate and aerosol detector
[NASA-CASE-LAR-11434-1] c 35 N76-22509
Thermoluminescent aerosol analysis
[NASA-CASE-LAR-12046-1] c 25 N78-15210
Particle analyzing method and apparatus
[NASA-CASE-NPO-15292-1] c 35 N83-27184

AEROSPACE ENGINEERING

Solar cell including second surface mirrors Patent
[NASA-CASE-NPO-10109] c 03 N71-11049
Metallic film diffusion for boundary lubrication Patent
[NASA-CASE-XLE-10337] c 15 N71-24046
Soldering device Patent
[NASA-CASE-XLA-08911] c 15 N71-27214
Installing fiber insulation
[NASA-CASE-MS-C-16973-1] c 37 N81-14317

AEROSPACE ENVIRONMENTS

Electrostatic thruster with improved insulators Patent
[NASA-CASE-XLE-01902] c 28 N71-10574
Metallic film diffusion for boundary lubrication Patent
[NASA-CASE-XLE-01765] c 18 N71-10772
Inorganic solid film lubricants Patent
[NASA-CASE-XMF-03988] c 15 N71-21403
Particle detection apparatus including a ballistic pendulum Patent
[NASA-CASE-XMS-04201] c 14 N71-22990
Alloys for bearings Patent
[NASA-CASE-XLE-05033] c 15 N71-23810
Method and apparatus for varying thermal conductivity Patent
[NASA-CASE-XNP-05524] c 33 N71-24876
Space simulator Patent
[NASA-CASE-NPO-10141] c 11 N71-24964
Cyclic switch Patent
[NASA-CASE-LEW-10155-1] c 09 N71-29035
Automatic biowaste sampling
[NASA-CASE-MS-C-14640-1] c 54 N76-14804
Wobble gear drive mechanism --- for aerospace environments
[NASA-CASE-WOO-00625] c 37 N78-17385

- Plasma cleaning device --- designed for high vacuum environments
[NASA-CASE-MFS-22906-1] c 75 N78-27913
- Process for spinning flame retardant elastomeric compositions --- fabricating synthetic fibers for high oxygen environments
[NASA-CASE-MSC-14331-3] c 27 N78-32262
- General purpose rocket furnace
[NASA-CASE-MFS-23460-1] c 12 N79-26075
- AEROSPACE MEDICINE**
- Instrument for use in performing a controlled Valsalva maneuver Patent
[NASA-CASE-XMS-01615] c 05 N70-41329
- Cooling system for removing metabolic heat from an hermetically sealed spacesuit
[NASA-CASE-ARC-11059-1] c 54 N78-32721
- AEROSPACE VEHICLES**
- Landing arrangement for aerial vehicles Patent
[NASA-CASE-XLA-00142] c 02 N70-33286
- Landing pad assembly for aerospace vehicles Patent
[NASA-CASE-XMF-02853] c 31 N70-36654
- Landing arrangement for aerospace vehicle Patent
[NASA-CASE-XLA-00805] c 31 N70-38010
- Flexibly connected support and skin Patent
[NASA-CASE-XLA-01027] c 31 N71-24035
- Nondestructive spot test method for titanium and titanium alloys
[NASA-CASE-LAR-10539-1] c 17 N73-12547
- Aerospace vehicle
[NASA-CASE-LAR-13155-1] c 18 N84-20628
- AEROSPACE PLANES**
- Multistage aerospace craft --- perspective drawings of conceptual design
[NASA-CASE-XMF-02263] c 05 N74-10907
- AFTERBODIES**
- Nacelle afterbody for jet engines Patent
[NASA-CASE-XLA-10450] c 28 N71-21493
- Missile rolling tail brake torque system --- simulating bearing friction on canard controlled missiles
[NASA-CASE-LAR-12751-1] c 15 N84-16231
- AFTERBURNING**
- Nozzle Patent
[NASA-CASE-XLA-00154] c 28 N70-33374
- AGGLOMERATION**
- Acoustic agglomeration methods and apparatus
[NASA-CASE-NPO-15466-1] c 71 N82-27087
- AGING (MATERIALS)**
- Method of heat treating age-hardenable alloys
[NASA-CASE-XNP-01311] c 26 N75-29236
- AGRICULTURE**
- Solar-powered pump
[NASA-CASE-NPO-13567-1] c 44 N76-29701
- AILERONS**
- Control device Patent
[NASA-CASE-XAC-10019] c 15 N71-23809
- AIR**
- Gas purged dry box glove Patent
[NASA-CASE-XLE-02531] c 05 N71-23080
- Superconductive magnetic-field-trapping device
[NASA-CASE-XNP-01185] c 26 N73-28710
- AIR BREATHING ENGINES**
- Multiple pure tone elimination strut assembly --- air breathing engines
[NASA-CASE-FRC-11062-1] c 71 N82-16800
- AIR CONDITIONING**
- Apparatus for supplying conditioned air at a substantially constant temperature and humidity
[NASA-CASE-GSC-12191-1] c 31 N80-32583
- Automotive absorption air conditioner utilizing solar and motor waste heat
[NASA-CASE-NPO-15183-1] c 44 N82-26776
- AIR CONDITIONING EQUIPMENT**
- Portable superclean air column device Patent
[NASA-CASE-XMF-03212] c 15 N71-22721
- Air conditioning system and component therefore distributing air flow from opposite directions
[NASA-CASE-GSC-11445-1] c 31 N74-27902
- AIR COOLING**
- Modification and improvements to cooled blades Patent
[NASA-CASE-XLE-00092] c 15 N70-33264
- Air modulation apparatus --- cooling gas turbine engines
[NASA-CASE-LEW-13524-1] c 34 N83-30957
- AIR FILTERS**
- Gas filter mounting structure
[NASA-CASE-MSC-12297] c 14 N72-23457
- AIR FLOW**
- Wind tunnel airstream oscillating apparatus Patent
[NASA-CASE-XLA-00112] c 11 N70-33287
- Method of obtaining permanent record of surface flow phenomena Patent
[NASA-CASE-XLA-01353] c 14 N70-41366
- Gas turbine combustor Patent
[NASA-CASE-LEW-10286-1] c 28 N71-28915
- Apparatus and method for generating large mass flow of high temperature air at hypersonic speeds
[NASA-CASE-LAR-10612-1] c 12 N73-28144
- Air conditioning system and component therefore distributing air flow from opposite directions
[NASA-CASE-GSC-11445-1] c 31 N74-27902
- Controlled separation combustor --- airflow distribution in gas turbine engines
[NASA-CASE-LEW-11593-1] c 20 N76-14190
- Method and apparatus for fluffing, separating, and cleaning fibers
[NASA-CASE-LAF-11224-1] c 37 N76-18456
- Smoke generator
[NASA-CASE-ARC-10905-1] c 37 N77-13418
- Variable cycle gas turbine engines
[NASA-CASE-LEW-12916-1] c 37 N78-17384
- Gas turbine engine with recirculating bleed
[NASA-CASE-LEW-12452-1] c 07 N78-25089
- Active clearance control system for a turbomachine
[NASA-CASE-LEW-12938-1] c 07 N82-32366
- Miniature electro-optical air flow sensor
[NASA-CASE-LAR-13065-1] c 74 N83-25539
- AIR INTAKES**
- Aeroflexible structures
[NASA-CASE-LAR-06095] c 01 N69-39981
- Reversed cowl flap inlet thrust augmentor --- with adjustable airfoil
[NASA-CASE-ARC-10754-1] c 07 N75-24736
- Self stabilizing sonic inlet
[NASA-CASE-LEW-11890-1] c 05 N79-24976
- Curved centerline air intake for a gas turbine engine
[NASA-CASE-LEW-13201-1] c 07 N81-14999
- Control means for a gas turbine engine
[NASA-CASE-LEW-14586-1] c 07 N83-31603
- AIR LOCKS**
- Spacecraft airlock Patent
[NASA-CASE-XLA-02050] c 31 N71-22968
- Thruster maintenance system Patent
[NASA-CASE-MFS-20325] c 28 N71-27095
- An airlock
[NASA-CASE-MFS-20922] c 31 N72-20840
- Airlock
[NASA-CASE-MFS-20922-1] c 18 N74-22136
- Apparatus for inserting and removing specimens from high temperature vacuum furnaces
[NASA-CASE-LAR-10841-1] c 31 N74-27900
- AIR NAVIGATION**
- Autonomous navigation system --- gyroscopic pendulum for air navigation
[NASA-CASE-ARC-11257-1] c 04 N81-21047
- Magnetic heading reference
[NASA-CASE-LAR-12638-1] c 04 N84-14132
- AIR POLLUTION**
- Analytical photoionization mass spectrometer with an argon gas filter between the light source and monochromator Patent
[NASA-CASE-LAR-10180-1] c 06 N71-13461
- Separation nut Patent
[NASA-CASE-XGS-01971] c 15 N71-15922
- Monitoring atmospheric pollutants with a heterodyne radiometer transmitter-receiver
[NASA-CASE-NPO-11919-1] c 35 N74-11284
- Fluorescence detector for monitoring atmospheric pollutants
[NASA-CASE-NPO-13231-1] c 45 N75-27585
- Stack plume visualization system
[NASA-CASE-LAR-11675-1] c 45 N76-17656
- Indicator providing continuous indication of the presence of a specific pollutant in air
[NASA-CASE-NPO-13474-1] c 45 N76-21742
- Method for detecting pollutants --- through chemical reactions and heat treatment
[NASA-CASE-LAR-11405-1] c 45 N76-31714
- Combustion engine --- for air pollution control
[NASA-CASE-NPO-13671-1] c 37 N77-31497
- Coal desulfurization process
[NASA-CASE-NPO-13937-1] c 44 N78-31527
- AIR PURIFICATION**
- High pressure gas filter system Patent
[NASA-CASE-MFS-12806] c 14 N71-17588
- Portable superclean air column device Patent
[NASA-CASE-XMF-03212] c 15 N71-22721
- Cell and method for electrolysis of water and anode
[NASA-CASE-MSC-16394-1] c 28 N81-24280
- AIR SAMPLING**
- Aerodynamic measuring device Patent
[NASA-CASE-XLA-00481] c 14 N70-36824
- Sampler of gas borne particles
[NASA-CASE-NPO-13396-1] c 35 N76-18401
- Automated syringe sampler --- remote sampling of air and water
[NASA-CASE-LAR-12308-1] c 35 N81-29407
- Mobile sampler for use in acquiring samples of terrestrial atmospheric gases
[NASA-CASE-NPO-15220-1] c 45 N83-25217
- AIR TRAFFIC CONTROL**
- Traffic control system and method Patent
[NASA-CASE-GSC-10087-1] c 02 N71-19287
- Satellite aided vehicle avoidance system Patent
[NASA-CASE-ERC-10090] c 21 N71-24948
- Position location system and method
[NASA-CASE-GSC-10087-3] c 07 N72-12080
- Video processor for air traffic control beacon system
[NASA-CASE-KSC-11155-1] c 33 N84-15395
- AIRBORNE EQUIPMENT**
- Inflatable radar reflector unit Patent
[NASA-CASE-XMS-00893] c 07 N70-40063
- AIRBORNE/SPACEBORNE COMPUTERS**
- Ripple add and ripple subtract binary counters Patent
[NASA-CASE-XGS-04766] c 08 N71-18602
- Shared memory for a fault-tolerant computer
[NASA-CASE-NPO-13139-1] c 60 N76-21914
- AIRCRAFT**
- System for indicating direction of intruder aircraft
[NASA-CASE-ERC-10226-1] c 14 N73-16483
- Thin conformal antenna array for microwave power conversions
[NASA-CASE-NPO-13886-1] c 32 N78-24391
- AIRCRAFT ACCIDENTS**
- Satellite aided vehicle avoidance system Patent
[NASA-CASE-ERC-10090] c 21 N71-24948
- AIRCRAFT ANTENNAS**
- Spiral slotted phased antenna array
[NASA-CASE-MSC-18532-1] c 32 N82-27558
- AIRCRAFT COMPARTMENTS**
- Low density bismaleimide-carbon microballoon composites --- aircraft and submarine compartment safety
[NASA-CASE-ARC-11040-2] c 24 N78-27184
- AIRCRAFT CONFIGURATIONS**
- Variable sweep wing configuration Patent
[NASA-CASE-XLA-00230] c 02 N70-33255
- Television simulation for aircraft and space flight Patent
[NASA-CASE-XFR-03107] c 09 N71-19449
- Dual-tuselage aircraft having yawable wing and horizontal stabilizer
[NASA-CASE-ARC-10470-1] c 02 N73-26005
- Family of airfoil shapes for rotating blades --- for increased power efficiency and blade stability
[NASA-CASE-LAR-12843-1] c 02 N84-11136
- AIRCRAFT CONSTRUCTION MATERIALS**
- Fuselage structure using advanced technology fiber reinforced composites
[NASA-CASE-LAR-11688-1] c 24 N82-26384
- Fire blocking systems for aircraft seat cushions
[NASA-CASE-ARC-11423-1] c 03 N83-17525
- Curved cap corrugated sheet
[NASA-CASE-LAR-12884-1] c 31 N83-29446
- AIRCRAFT CONTROL**
- Control for flexible parawing Patent
[NASA-CASE-XLA-06958] c 02 N71-11038
- Attitude controls for VTOL aircraft Patent
[NASA-CASE-XAC-08972] c 02 N71-20570
- Control device Patent
[NASA-CASE-XAC-10019] c 15 N71-23809
- Direct lift control system Patent
[NASA-CASE-LAR-10249-1] c 02 N71-26110
- High speed flight vehicle control Patent
[NASA-CASE-XLA-08967] c 02 N71-27088
- Mechanically limited, electrically operated hydraulic valve system for aircraft controls Patent
[NASA-CASE-XAC-00048] c 02 N71-29128
- Flight control system
[NASA-CASE-MSC-13397-1] c 21 N72-25595
- Aircraft control system
[NASA-CASE-ERC-10439] c 02 N73-19004
- Display system
[NASA-CASE-ERC-10350] c 14 N73-20474
- Suppression of flutter
[NASA-CASE-LAR-10682-1] c 02 N73-26004
- Integrated lift/drag controller for aircraft
[NASA-CASE-ARC-10456-1] c 05 N75-12930
- High lift aircraft --- with improved stability, control, performance, and noise characteristics
[NASA-CASE-LAR-11252-1] c 05 N75-25914
- Filtering technique based on high-frequency plant modeling for high-gain control
[NASA-CASE-LAR-12215-1] c 08 N79-23097
- Velocity vector control system augmented with direct lift control
[NASA-CASE-LAR-12268-1] c 08 N81-24106
- Pitch attitude stabilization system utilizing engine pressure ratio feedback signals
[NASA-CASE-LAR-12562-1] c 08 N81-26152
- Leading edge flap system for aircraft control augmentation
[NASA-CASE-LAR-12767-1] c 05 N82-25240
- Aircraft control position indicator
[NASA-CASE-LAR-12984-1] c 06 N84-20522

AIRCRAFT DESIGN

- Supersonic aircraft Patent
[NASA-CASE-XLA-04451] c 02 N71-12243
- Dual-fuselage aircraft having yawable wing and horizontal stabilizer
[NASA-CASE-ARC-10470-1] c 02 N73-26005
- Multistage aerospace craft --- perspective drawings of conceptual design
[NASA-CASE-XMF-02263] c 05 N74-10907
- High lift aircraft --- with improved stability, control, performance, and noise characteristics
[NASA-CASE-LAR-11252-1] c 05 N75-25914
- Oblique-wing supersonic aircraft
[NASA-CASE-ARC-10470-3] c 05 N76-29217
- Supersonic transport --- using canard surfaces
[NASA-CASE-LAR-11932-1] c 05 N78-32086
- Helicopter rotor airfoil
[NASA-CASE-LAR-12396-1] c 02 N79-24958
- Geometries for roughness shapes in laminar flow
[NASA-CASE-LAR-13255-1] c 02 N84-12092
- Wingtip vortex propeller
[NASA-CASE-LAR-13019-1] c 02 N84-20495

AIRCRAFT DETECTION

- Altitude measuring system
[NASA-CASE-ERC-10412-1] c 09 N73-12211
- Apparatus for measuring an aircraft's speed and height
[NASA-CASE-LAR-12275-1] c 35 N79-18296

AIRCRAFT ENGINES

- Noise suppressor --- for turbofan engine by incorporating annular acoustically porous elements in exhaust and inlet ducts
[NASA-CASE-LAR-11141-1] c 07 N74-32418
- Dual cycle aircraft turbine engine
[NASA-CASE-LAR-11310-1] c 07 N77-28118
- Portable device for use in starting air-start-units for aircraft and having cable lead testing capability
[NASA-CASE-FRC-10113-1] c 33 N80-26599
- Aircraft engine nozzle
[NASA-CASE-ARC-10977-1] c 07 N80-32392

AIRCRAFT EQUIPMENT

- Clear air turbulence detector
[NASA-CASE-ERC-10081] c 14 N72-28437
- Air speed and altitude probe
[NASA-CASE-FRC-11009-1] c 06 N80-18036
- Cooling system for high speed aircraft
[NASA-CASE-LAR-12406-1] c 05 N81-26114
- System for providing an integrated display of instantaneous information relative to aircraft attitude, heading, altitude, and horizontal situation
[NASA-CASE-FRC-11005-1] c 06 N82-16075

AIRCRAFT FUEL SYSTEMS

- Oil cooling system for a gas turbine engine
[NASA-CASE-LEW-12321-1] c 37 N78-10467

AIRCRAFT GUIDANCE

- Terminal guidance system --- for guiding aircraft into preselected altitude and/or heading at terminal point
[NASA-CASE-FRC-10049-1] c 04 N74-13420
- Sun sensing guidance system for high altitude aircraft
[NASA-CASE-FRC-11052-1] c 04 N82-23231

AIRCRAFT HAZARDS

- Inlet deflector for jet engines Patent
[NASA-CASE-XLE-00388] c 28 N70-34788

AIRCRAFT HYDRAULIC SYSTEMS

- Gas turbine engine fuel control
[NASA-CASE-LEW-11187-1] c 28 N73-19793
- Hydraulic actuator mechanism to control aircraft spoiler movements through dual input commands
[NASA-CASE-LAR-12412-1] c 08 N82-24205

AIRCRAFT INSTRUMENTS

- Airplane take-off performance indicator Patent
[NASA-CASE-XLA-00100] c 14 N70-36807
- Aerodynamic measuring device Patent
[NASA-CASE-XLA-00481] c 14 N70-36824
- Aircraft instrument Patent
[NASA-CASE-XLA-00487] c 14 N70-40157
- Optical projector system Patent
[NASA-CASE-XNP-03853] c 23 N71-21882
- Combined optical attitude and altitude indicating instrument Patent
[NASA-CASE-XLA-01907] c 14 N71-23268
- Head-up attitude display
[NASA-CASE-ERC-10392] c 21 N73-14692
- G-load measuring and indicator apparatus
[NASA-CASE-ARC-10806-1] c 35 N75-29381
- Magnetic heading reference
[NASA-CASE-LAR-11387-1] c 04 N76-20114
- Aircraft-mounted crash-activated transmitter device
[NASA-CASE-MFS-16609-3] c 03 N76-32140

AIRCRAFT LANDING

- Landing arrangement for aerial vehicle Patent
[NASA-CASE-XLA-00806] c 02 N70-34858
- Magnetic position detection method and apparatus
[NASA-CASE-ARC-10179-1] c 21 N72-22619
- Integrated lift/drag controller for aircraft
[NASA-CASE-ARC-10456-1] c 05 N75-12930

Vehicle simulator binocular multiplanar visual display system

- [NASA-CASE-ARC-10808-1] c 09 N76-24280
- Full color hybrid display for aircraft simulators --- landing aids
[NASA-CASE-ARC-10903-1] c 09 N78-18083
- Environmental fog/rain visual display system for aircraft simulators
[NASA-CASE-ARC-11158-1] c 09 N82-24212

AIRCRAFT LAUNCHING DEVICES

- Rotating launch device for a remotely piloted aircraft
[NASA-CASE-ARC-10979-1] c 09 N77-19076

AIRCRAFT MANEUVERS

- G-load measuring and indicator apparatus
[NASA-CASE-ARC-10806-1] c 35 N75-29381
- Dual towline anti-spin device --- for flight tests
[NASA-CASE-LAR-13076-1] c 05 N83-34934

AIRCRAFT MODELS

- Test unit free-flight suspension system Patent
[NASA-CASE-XLA-00939] c 11 N71-15926
- Variable geometry wind tunnels
[NASA-CASE-XLA-07430] c 11 N72-22246
- Deploy/release system --- model aircraft flight control
[NASA-CASE-LAR-11575-1] c 02 N76-16014

AIRCRAFT NOISE

- Instrumentation for measuring aircraft noise and sonic boom
[NASA-CASE-LAR-11476-1] c 07 N76-27232

AIRCRAFT PERFORMANCE

- Ferry system
[NASA-CASE-LAR-10574-1] c 11 N73-13257

AIRCRAFT PILOTS

- Apparatus for applying simulator g-forces to an arm of an aircraft simulator pilot
[NASA-CASE-LAR-10550-1] c 09 N74-30597

AIRCRAFT SAFETY

- Airplane take-off performance indicator Patent
[NASA-CASE-XLA-00100] c 14 N70-36807
- Display research collision warning system
[NASA-CASE-HQN-10703] c 21 N73-13643
- Deployable flexible ventral fins for use as an emergency spin recovery device in aircraft
[NASA-CASE-LAR-10753-1] c 08 N74-30421
- Variable response load limiting device --- for aircraft seats
[NASA-CASE-LAR-12801-1] c 37 N82-20544
- Extended moment arm anti-spin device
[NASA-CASE-LAR-12979-1] c 02 N83-29173

AIRCRAFT SPIN

- Extended moment arm anti-spin device
[NASA-CASE-LAR-12979-1] c 02 N83-29173
- Dual towline anti-spin device --- for flight tests
[NASA-CASE-LAR-13076-1] c 05 N83-34934

AIRCRAFT STABILITY

- Mechanical stability augmentation system Patent
[NASA-CASE-XLA-06339] c 02 N71-13422
- Suppression of flutter
[NASA-CASE-LAR-10682-1] c 02 N73-26004

AIRCRAFT STRUCTURES

- Fatigue testing device Patent
[NASA-CASE-XLA-02131] c 32 N70-42003
- Heat flux measuring system Patent
[NASA-CASE-XFR-03802] c 33 N71-23085
- Three-axis adjustable loading structure
[NASA-CASE-FRC-10051-1] c 35 N74-13129
- Transparent fire resistant polymeric structures
[NASA-CASE-ARC-10813-1] c 27 N76-16230
- Wingtip vortex dissipator for aircraft
[NASA-CASE-LAR-11645-1] c 02 N77-10001
- Aircraft canopy lock
[NASA-CASE-FRC-11065-1] c 05 N83-19737
- Metal matrix composite structural panel construction
[NASA-CASE-LAR-12807-1] c 24 N84-11214
- Optimized bolted joint
[NASA-CASE-LAR-13250-1] c 37 N84-20859

AIRCRAFT TIRES

- Improved tire/wheel concept --- pneumatic aircraft tire
[NASA-CASE-LAR-11695-2] c 37 N80-18402
- Tire/wheel concept
[NASA-CASE-LAR-11695-2] c 37 N81-24443

AIRCRAFT WAKES

- System for use in conducting wake investigation for a wing in flight --- differential pressure measurements for drag investigations
[NASA-CASE-FRC-11024-1] c 02 N80-28300

AIRFOIL PROFILES

- Family of airfoil shapes for rotating blades --- for increased power efficiency and blade stability
[NASA-CASE-LAR-12843-1] c 02 N84-11136

AIRFOILS

- Minimum induced drag airfoil body Patent
[NASA-CASE-XLA-00755] c 01 N71-13410
- Minimum induced drag airfoil body Patent
[NASA-CASE-XLA-05828] c 01 N71-13411
- Wind tunnel
[NASA-CASE-LAR-10135-1] c 09 N79-21083

Surface finishing

- [NASA-CASE-MS-C-12631-3] c 27 N81-14077
- Model mount system for testing flutter
[NASA-CASE-LAR-12950-1] c 09 N83-25727

AIRFRAMES

- Dual-fuselage aircraft having yawable wing and horizontal stabilizer
[NASA-CASE-ARC-10470-1] c 02 N73-26005
- Cooling system for high speed aircraft
[NASA-CASE-LAR-12406-1] c 05 N81-26114
- Explosively activated egress area
[NASA-CASE-LAR-12624-1] c 01 N83-35992

AIRSPEED

- Landing arrangement for aerial vehicle Patent
[NASA-CASE-XLA-00806] c 02 N70-34858
- Apparatus for measuring an aircraft's speed and height
[NASA-CASE-LAR-12275-1] c 35 N79-18296
- Air speed and altitude probe
[NASA-CASE-FRC-11009-1] c 06 N80-18036
- Miniature electro-optical air flow sensor
[NASA-CASE-LAR-13065-1] c 74 N83-25539

ALCOHOLS

- Trifunctional alcohol
[NASA-CASE-NPO-10714] c 06 N69-31244
- Laser coolant and ultraviolet filter
[NASA-CASE-MFS-20180] c 16 N72-12440

ALDEHYDES

- Direct synthesis of polymeric Schiff bases from two amines and two aldehydes Patent
[NASA-CASE-XMF-08655] c 06 N71-11239
- Azine polymers and process for preparing the same Patent
[NASA-CASE-XMF-08656] c 06 N71-11242
- Aromatic diamine-aromatic dialdehyde high molecular weight Schiff base polymers prepared in a monofunctional Schiff base Patent
[NASA-CASE-XMF-03074] c 06 N71-24740
- Nuclear alkylated pyridine aldehyde polymers and conductive compositions thereof
[NASA-CASE-NPO-10557] c 27 N78-17214
- Polyvinyl alcohol cross-linked with two aldehydes
[NASA-CASE-LEW-13504-1] c 25 N83-13188

ALIGNMENT

- Instrument support with precise lateral adjustment Patent
[NASA-CASE-XMF-00480] c 14 N70-39898
- Portable alignment tool Patent
[NASA-CASE-XMF-01452] c 15 N70-41371
- Optical alignment system Patent
[NASA-CASE-XNP-02029] c 14 N70-41955
- Trigonometric vehicle guidance assembly which aligns the three perpendicular axes of two three-axes systems Patent
[NASA-CASE-XMF-00684] c 21 N71-21688
- Aligning and positioning device Patent
[NASA-CASE-XMS-04178] c 15 N71-22798
- Method and apparatus for aligning a laser beam projector Patent
[NASA-CASE-NPO-11087] c 23 N71-29125
- Roll alignment detector
[NASA-CASE-GSC-10514-1] c 14 N72-20379
- Zero gravity shadow shield aligner
[NASA-CASE-KSC-10622-1] c 31 N72-21893
- Alignment apparatus using a laser having a gravitationally sensitive cavity reflector
[NASA-CASE-ARC-10444-1] c 16 N73-33397
- Spacecraft docking and alignment system --- using television camera system
[NASA-CASE-MS-C-12559-1] c 18 N76-14186
- Method of constructing dished ion thruster grids to provide hole array spacing compensation
[NASA-CASE-LEW-11876-1] c 20 N76-21276
- Optical alignment device
[NASA-CASE-ARC-10932-1] c 74 N76-22993
- Precision alignment apparatus for cutting a workpiece
[NASA-CASE-LAR-11658-1] c 37 N77-14478
- Guide for a typewriter
[NASA-CASE-MFS-15218-1] c 37 N77-19457
- Rotary target V-block --- aligning wind tunnel apparatus for optical measurement
[NASA-CASE-LAR-12007-2] c 74 N79-25876
- Simulator scene display evaluation
[NASA-CASE-ARC-11504-1] c 09 N84-16221
- Rotary target V-block
[NASA-CASE-LAR-12007-3] c 35 N84-16523

ALIPHATIC COMPOUNDS

- The 1,1,1-triaryl-2,2,2-trifluoroethanes and process for their synthesis
[NASA-CASE-ARC-11097-1] c 25 N82-24312

ALKALI HALIDES

- Fire extinguishant materials
[NASA-CASE-ARC-11252-1] c 25 N83-36118

ALKALI METALS

- Alkali-metal silicate protective coating
[NASA-CASE-XGS-04119] c 18 N69-39979

- Analytical test apparatus and method for determining oxide content of alkali metal Patent
[NASA-CASE-XLE-01997] c 06 N71-23527
- Alkali metal silicate protective coating Patent
[NASA-CASE-XGS-04799] c 18 N71-24183
- Heat activated cell with alkali anode and alkali salt electrolyte Patent
[NASA-CASE-LEW-11358] c 03 N71-26084
- Preparation of alkali metal dispersions
[NASA-CASE-XNP-08876] c 17 N73-28573
- Process for preparing higher oxides of the alkali and alkaline earth metals
[NASA-CASE-ARC-10992-1] c 26 N78-32229
- Alkali-metal silicate binders and methods of manufacture
[NASA-CASE-GSC-12303-1] c 24 N79-31347
- Heat pipes containing alkali metal working fluid
[NASA-CASE-LEW-12253-1] c 74 N83-19596
- Fire extinguishant materials
[NASA-CASE-ARC-11252-1] c 25 N83-36118

ALKALINE BATTERIES

- Method for determining the state of charge of batteries by the use of tracers Patent
[NASA-CASE-XNP-01464] c 03 N71-10728
- Electrochemical coulometer and method of forming same Patent
[NASA-CASE-XGS-05434] c 03 N71-20491
- Electrocatalyst for oxygen reduction
[NASA-CASE-HON-10537-1] c 06 N72-10138
- Inorganic-organic separators for alkaline batteries
[NASA-CASE-LEW-12649-1] c 44 N78-25530
- Polyvinyl alcohol battery separator containing inert filler --- alkaline batteries
[NASA-CASE-LEW-13556-1] c 44 N81-27615
- Alkaline battery containing a separator of a cross-linked copolymer of vinyl alcohol and unsaturated carboxylic acid
[NASA-CASE-LEW-13102-1] c 44 N81-29531
- Process of treating cellulosic membrane and alkaline with membrane separator
[NASA-CASE-GSC-10019-1] c 44 N82-24641
- Separator for alkaline batteries and method of making same
[NASA-CASE-GSC-10350-1] c 44 N82-24642
- Separator for alkaline electric cells and method of making
[NASA-CASE-GSC-10017-1] c 44 N82-24643
- Separator for alkaline electric batteries and method of making
[NASA-CASE-GSC-10018-1] c 44 N82-24644
- Aqueous alkali metal hydroxide insoluble cellulose ether membrane
[NASA-CASE-XGS-05584-1] c 25 N82-29370
- Advanced inorganic separators for alkaline batteries
[NASA-CASE-LEW-13171-1] c 44 N82-29708
- Polyvinyl alcohol battery separator containing inert filler
[NASA-CASE-LEW-13556-2] c 44 N83-29805
- Advanced inorganic separators for alkaline batteries and method of making the same
[NASA-CASE-LEW-13171-2] c 44 N83-32176
- Additive for zinc electrodes --- electric automobiles
[NASA-CASE-LEW-13286-1] c 33 N84-14422

ALKALINE EARTH OXIDES

- Process for preparing higher oxides of the alkali and alkaline earth metals
[NASA-CASE-ARC-10992-1] c 26 N78-32229

ALKYL COMPOUNDS

- Fluorohydroxy ethers
[NASA-CASE-MFS-10507] c 06 N73-30101

ALKYNES

- High performance channel injection sealant invention abstract
[NASA-CASE-ARC-14408-1] c 27 N82-33523

ALLOYS

- Brazing alloy Patent
[NASA-CASE-XNP-03063] c 17 N71-23365
- Alloys for bearings Patent
[NASA-CASE-XLE-05033] c 15 N71-23810
- Process for applying black coating to metals Patent
[NASA-CASE-XLA-06199] c 15 N71-24875
- Adjustable mount for a trihedral mirror Patent
[NASA-CASE-XNP-08907] c 23 N71-29123
- Enhanced diffusion welding
[NASA-CASE-LEW-11388-1] c 15 N73-32358
- Brazing alloy binder
[NASA-CASE-XMF-05868] c 26 N75-27125
- Brazing alloy
[NASA-CASE-XNP-03878] c 26 N75-27127

ALPHA PARTICLES

- Method and means for helium/hydrogen ratio measurement by alpha scattering
[NASA-CASE-NPO-14079-1] c 25 N80-20334

ALPHANUMERIC CHARACTERS

- X-Y alphanumeric character generator for oscilloscopes
[NASA-CASE-GSC-11582-1] c 33 N75-19517

ALTERNATING CURRENT

- Ac power amplifier Patent Application
[NASA-CASE-LAR-10218-1] c 09 N70-34559
- Frequency control network for a current feedback oscillator Patent
[NASA-CASE-GSC-10041-1] c 10 N71-19418
- Blood pressure measuring system for separating and separately recording dc signal and an ac signal Patent
[NASA-CASE-XMS-06061] c 05 N71-23317
- Switching circuit Patent
[NASA-CASE-XNP-06505] c 10 N71-24799
- Pulse width inverter Patent
[NASA-CASE-MFS-10068] c 10 N71-25139
- Inverter with means for base current shaping for sweeping charge carriers from base region Patent
[NASA-CASE-XGS-06226] c 10 N71-25950
- A dc to ac to dc converter having transistor synchronous rectifiers
[NASA-CASE-GSC-11126-1] c 09 N72-25253
- Phase protection system for ac power lines
[NASA-CASE-MSC-17832-1] c 33 N74-14956
- Solar cell system having alternating current output
[NASA-CASE-LEW-12806-2] c 44 N81-12542
- Power factor control system for ac induction motors
[NASA-CASE-MFS-23988-1] c 33 N81-27395
- Non-contacting power transfer device
[NASA-CASE-GSC-12595-1] c 33 N82-24422
- Energy saving electrical motor control system
[NASA-CASE-MFS-25560-1] c 33 N82-30472
- Coupling an induction motor type generator to a-c power lines
[NASA-CASE-MFS-25302-2] c 33 N83-24768

ALTIMETERS

- Echo tracker/range finder for radars and sonars
[NASA-CASE-NPO-14361-1] c 32 N82-23376

ALTITUDE

- Combined optical attitude and altitude indicating instrument Patent
[NASA-CASE-XLA-01907] c 14 N71-23268

ALTITUDE CONTROL

- Check valve assembly for a probe Patent
[NASA-CASE-XLA-00128] c 15 N70-37925

ALUMINUM

- Method of joining aluminum to stainless steel Patent
[NASA-CASE-MFS-07369] c 15 N71-20443
- Thermal control coating Patent
[NASA-CASE-XLA-01995] c 18 N71-23047
- Etching of aluminum for bonding Patent
[NASA-CASE-XMF-02303] c 17 N71-23828
- Process for producing dispersion strengthened nickel with aluminum Patent
[NASA-CASE-XLE-06969] c 17 N71-24142
- Plating nickel on aluminum castings Patent
[NASA-CASE-XNP-04148] c 17 N71-24830
- Method of plating copper on aluminum Patent
[NASA-CASE-XLA-08966-1] c 17 N71-25903
- Heat activated cell Patent
[NASA-CASE-LEW-11359] c 03 N71-28579
- Method of making emf cell
[NASA-CASE-LEW-11359-2] c 03 N72-20034
- Method of preparing graphite reinforced aluminum composite
[NASA-CASE-MFS-21077-1] c 24 N75-28135
- Method of fluxless brazing and diffusion bonding of aluminum containing components
[NASA-CASE-MSC-14435-1] c 37 N76-18455
- Method for making an aluminum or copper substrate panel for selective absorption of solar energy
[NASA-CASE-MFS-23518-1] c 44 N79-11469
- Recovery of aluminum from composite propellants
[NASA-CASE-NPO-14110-1] c 28 N81-15119
- Imaging X-ray spectrometer
[NASA-CASE-GSC-12682-1] c 35 N82-26629
- High performance filletting sealant
[NASA-CASE-ARC-11409-1] c 27 N82-32490
- Variable anodic thermal control coating
[NASA-CASE-LAR-12719-1] c 44 N83-34449

ALUMINUM ALLOYS

- Low temperature aluminum alloy Patent
[NASA-CASE-XMF-02786] c 17 N71-20743
- Etching of aluminum for bonding Patent
[NASA-CASE-XMF-02303] c 17 N71-23828
- Method of producing complex aluminum alloy parts of high temper, and products thereof
[NASA-CASE-MSC-19693-1] c 26 N78-24333
- Nicral ternary alloy having improved cyclic oxidation resistance
[NASA-CASE-LEW-13339-1] c 26 N82-31505
- Metal matrix composite structural panel construction
[NASA-CASE-LAR-12807-1] c 24 N84-11214

ALUMINUM COATINGS

- Nickel aluminide coated low alloy stainless steel
[NASA-CASE-LEW-11267-1] c 17 N73-32414
- Preparing oxidizer coated metal fuel particles
[NASA-CASE-NPO-11975-1] c 28 N74-33209
- Method of protecting the surface of a substrate --- by applying aluminide coating
[NASA-CASE-LEW-11696-1] c 37 N75-13261
- Duplex aluminized coatings
[NASA-CASE-LEW-11696-2] c 26 N75-19408
- Meteoroid impact position locator aid for manned space station
[NASA-CASE-LAR-10629-1] c 35 N75-33367
- Method of protecting a surface with a silicon-slurry/aluminide coating --- coatings for gas turbine engine blades and vanes
[NASA-CASE-LEW-13343-1] c 27 N82-28441
- Fire blocking systems for aircraft seat cushions
[NASA-CASE-ARC-11423-1] c 03 N83-17525
- Silicon-slurry/aluminide coating --- protecting gas turbine engine vanes and blades
[NASA-CASE-LEW-13343] c 26 N83-31795

ALUMINUM COMPOUNDS

- Synthesis of dawsonites --- for use in fire extinguishing operations
[NASA-CASE-ARC-11326-1] c 25 N83-33977
- Fire extinguishant materials
[NASA-CASE-ARC-11252-1] c 25 N83-36118

ALUMINUM OXIDES

- Bonding of sapphire to sapphire by eutectic mixture of aluminum oxide and zirconium oxide
[NASA-CASE-GSC-11577-1] c 37 N75-15992
- Bonding of sapphire to sapphire by eutectic mixture of aluminum oxide and zirconium oxide
[NASA-CASE-GSC-11577-3] c 24 N79-25143
- Castable high temperature refractory materials
[NASA-CASE-LEW-13080-2] c 27 N82-11210
- Method and technique for installing light-weight, fragile, high-temperature fiber insulation
[NASA-CASE-MSC-16934-3] c 24 N84-16262

ALUMINUM SILICATES

- Inorganic thermal control pigment Patent
[NASA-CASE-XNP-02139] c 18 N71-24184

AMBIENT TEMPERATURE

- High stability amplifier
[NASA-CASE-GSC-12646-1] c 33 N83-34191

AMIDES

- Preparation of heterocyclic block copolymer omega-diamidoximes
[NASA-CASE-ARC-11060-1] c 27 N79-22300
- Preparation of perfluorinated imidoylamidoximes --- for eventual preparation of heat and chemical resistant polymers
[NASA-CASE-ARC-11267-1] c 23 N80-26386
- Method for preparing addition type polyimide prepreps
[NASA-CASE-LAR-12054-2] c 27 N81-14078

AMINES

- Direct synthesis of polymeric schiff bases from two amines and two aldehydes Patent
[NASA-CASE-XMF-08655] c 06 N71-11239
- Synthesis of polymeric schiff bases by reaction of acetals and amine compounds Patent
[NASA-CASE-XMF-08652] c 06 N71-11243
- Polyimide foam for the thermal insulation and fire protection
[NASA-CASE-ARC-10464-1] c 27 N74-12812
- Automated analysis of oxidative metabolites
[NASA-CASE-ARC-10469-1] c 25 N75-12086
- Preparation of perfluorinated 1,2,4-oxadiazoles
[NASA-CASE-ARC-11267-2] c 23 N82-28353
- Method of neutralizing the corrosive surface of amine-cured epoxy resins
[NASA-CASE-GSC-12686-1] c 27 N83-34039

AMINO ACIDS

- Amino acid analysis
[NASA-CASE-NPO-12130-1] c 25 N75-14844

AMMONIA

- Solid state chemical source for ammonia beam maser Patent
[NASA-CASE-XGS-01504] c 16 N70-41578

AMMONIUM NITRATES

- High performance ammonium nitrate propellant
[NASA-CASE-NPO-14260-1] c 28 N79-28342

AMMONIUM PERCHLORATES

- Ammonium perchlorate composite propellant containing an organic transitional metal chelate catalytic additive Patent
[NASA-CASE-LAR-10173-1] c 27 N71-14090
- Process for the leaching of AP from propellant
[NASA-CASE-NPO-14109-1] c 28 N80-23471

AMORPHOUS MATERIALS

- Production of ultrapure amorphous metals utilizing acoustic cooling
[NASA-CASE-NPO-15658-1] c 26 N83-19890

AMPLIFICATION

- Amplifier drift tester
[NASA-CASE-XMS-05562-1] c 09 N69-39986
Amplifier clamping circuit for horizon scanner Patent
[NASA-CASE-XGS-01784] c 10 N71-20782
Diversity receiving system with diversity phase lock Patent
[NASA-CASE-XGS-01222] c 10 N71-20841
Active RC networks
[NASA-CASE-ARC-10042-2] c 10 N72-11256
High voltage transistor amplifier with constant current load
[NASA-CASE-NPO-11023] c 09 N72-17155
Independent gain and bandwidth control of a traveling wave maser
[NASA-CASE-NPO-13801-1] c 36 N78-18410
Pseudonoise code tracking loop
[NASA-CASE-MSC-18035-1] c 32 N81-15179
Automatic level control circuit
[NASA-CASE-KSC-11170-1] c 33 N83-36356

AMPLIFIER DESIGN

- Automatic gain control system
[NASA-CASE-XMS-05307] c 09 N69-24330
Bio-isolated dc operational amplifier --- for bioelectric measurements
[NASA-CASE-ARC-10596-1] c 33 N74-21851
High power metallic halide laser --- amplifying a copper chloride laser
[NASA-CASE-NPO-14782-1] c 36 N82-28616
Reactanceless bandpass amplifier
[NASA-CASE-GSC-12788-1] c 33 N83-12333

AMPLIFIERS

- Stable amplifier having a stable quiescent point Patent
[NASA-CASE-XGS-02812] c 09 N71-19466
Method and apparatus for continuously monitoring blood oxygenation, blood pressure, pulse rate and the pressure pulse curve utilizing an ear oximeter as transducer Patent
[NASA-CASE-XAC-05422] c 04 N71-23185
High-gain, broadband traveling wave maser Patent
[NASA-CASE-NPO-10548] c 16 N71-24831
Vibrophonocardiograph Patent
[NASA-CASE-XFR-07172] c 05 N71-27234
Transient augmentation circuit for pulse amplifiers Patent
[NASA-CASE-XNP-01068] c 10 N71-28739
RC networks and amplifiers employing the same
[NASA-CASE-XAC-05462-2] c 10 N72-17171
Full wave modulator-demodulator amplifier apparatus --- for generating rectified output signal
[NASA-CASE-FRC-10072-1] c 33 N74-14939
Automatic focus control for facsimile cameras
[NASA-CASE-LAR-11213-1] c 35 N75-15014
Reflected-wave maser --- low noise amplifier
[NASA-CASE-NPO-13490-1] c 36 N76-31512
Inductorless narrow-band filter/amplifier
[NASA-CASE-GSC-12410-1] c 33 N79-24260
Integrated photo-responsive metal oxide semiconductor circuit
[NASA-CASE-GSC-12782-1] c 33 N83-13360
High stability amplifier
[NASA-CASE-GSC-12646-1] c 33 N83-34191

AMPLITUDE DISTRIBUTION ANALYSIS

- System for monitoring signal amplitude ranges
[NASA-CASE-XMS-04061-1] c 09 N69-39885
Single or joint amplitude distribution analyzer Patent
[NASA-CASE-XNP-01383] c 09 N71-10659
Analog-to-digital converter
[NASA-CASE-XNP-00477] c 08 N73-28045

AMPLITUDE MODULATION

- Signal generator
[NASA-CASE-XNP-05612] c 09 N69-21468
Demodulation system Patent
[NASA-CASE-XAC-04030] c 10 N71-19472
Amplitude modulated laser transmitter Patent
[NASA-CASE-XMS-04269] c 16 N71-22895
Vibrating element electrometer with output signal magnified over input signal by a function of the mechanical Q of the vibrating element Patent
[NASA-CASE-XAC-02807] c 09 N71-23021
Phase multiplying electronic scanning system Patent
[NASA-CASE-NPO-10302] c 10 N71-26142
Signal path series step biased multidevice high efficiency amplifier Patent
[NASA-CASE-GSC-10668-1] c 07 N71-28430
Gated compressor, distortionless signal limiter
[NASA-CASE-NPO-11820-1] c 32 N74-19788
Amplitude steered array
[NASA-CASE-GSC-11446-1] c 33 N74-20860
Stark-effect modulation of CO₂ laser with NH₂D
[NASA-CASE-NPO-11945-1] c 36 N76-18427
Adaptive reference voltage generator for firing angle control of line-commutated inverters
[NASA-CASE-MFS-25215-1] c 33 N83-31953

AMPLITUDES

- Noise limiter Patent
[NASA-CASE-NPO-10169] c 10 N71-24844
A dual differential interferometer
[NASA-CASE-LAR-12966-1] c 71 N83-12969

AMPOULES

- Ampoule sealing apparatus and process --- for housing a semiconductor growth charge under vacuum
[NASA-CASE-LAR-12847-1] c 33 N83-16633
Apparatus and method for heating a material in a transparent ampoule --- crystal growth
[NASA-CASE-MFS-25436-1] c 27 N83-36220

ANALGESIA

- Indomethacin-antihistamine combination for gastric ulceration control
[NASA-CASE-ARC-11118-2] c 52 N81-14613
Indomethacin-antihistamine combination for gastric ulceration control
[NASA-CASE-ARC-11118-1] c 52 N81-29764

ANALOG CIRCUITS

- Condition and condition duration indicator Patent
[NASA-CASE-XMF-01097] c 10 N71-16058
Automatic closed circuit television arc guidance control Patent
[NASA-CASE-MFS-13046] c 07 N71-19433
Electronic divider and multiplier using photocells Patent
[NASA-CASE-XFR-05637] c 09 N71-19480
Continuous Fourier transform method and apparatus --- for the analysis of simultaneous analog signal components
[NASA-CASE-ARC-10466-1] c 60 N75-13539
Electronic analog divider
[NASA-CASE-LEW-11881-1] c 33 N77-17354
Tuned analog network
[NASA-CASE-GSC-12650-1] c 33 N84-14421

ANALOG COMPUTERS

- Analog spatial maneuver computer
[NASA-CASE-GSC-10880-1] c 08 N72-11172

ANALOG DATA

- Data compression processor Patent
[NASA-CASE-NPO-10068] c 08 N71-19288
Wide range data compression system Patent
[NASA-CASE-XGS-02612] c 08 N71-19435
Analog Signal to Discrete Time Interval Converter (ASDTIC)
[NASA-CASE-ERC-10048] c 09 N72-25251
Digital plus analog output encoder
[NASA-CASE-GSC-12115-1] c 62 N76-31946
Velocity measurement system
[NASA-CASE-MFS-23363-1] c 35 N78-32396

ANALOG SIMULATION

- Apparatus for simulating optical transmission links
[NASA-CASE-GSC-11877-1] c 74 N76-18913

ANALOG TO DIGITAL CONVERTERS

- Analog-to-digital conversion system Patent
[NASA-CASE-XAC-00404] c 08 N70-40125
Analog to digital converter Patent
[NASA-CASE-XLA-00670] c 08 N71-12501
Nonlinear analog-to-digital converter Patent
[NASA-CASE-XAC-04031] c 08 N71-18594
Drift compensation circuit for analog to digital converter Patent
[NASA-CASE-XNP-04780] c 08 N71-19687
Pneumatic oscillator Patent
[NASA-CASE-LEW-10345-1] c 10 N71-25899
Analog signal integration and reconstruction system Patent
[NASA-CASE-NPO-10344] c 10 N71-26544
Analog to digital converter tester Patent
[NASA-CASE-XLA-06713] c 14 N71-28991
Wide range analog-to-digital converter with a variable gain amplifier
[NASA-CASE-NPO-11018] c 08 N72-21200
Analog-to-digital converter
[NASA-CASE-MSC-13110-1] c 08 N72-22163
Analog-to-digital converter analyzing system
[NASA-CASE-NPO-10560] c 08 N72-22166
Digital control and information system
[NASA-CASE-NPO-11016] c 08 N72-31226
Counting digital filters
[NASA-CASE-NPO-11821-1] c 08 N73-26175
Analog-to-digital converter
[NASA-CASE-XNP-00477] c 08 N73-28045
Analog to digital converter
[NASA-CASE-NPO-13385-1] c 33 N76-18345
Analog to digital converter for two-dimensional radiant energy array computers
[NASA-CASE-GSC-11839-3] c 60 N77-32731
Electrochemical detection device --- for use in microbiology
[NASA-CASE-LAR-11922-1] c 25 N79-24073
Heads up display
[NASA-CASE-LAR-12630-1] c 06 N82-29319

- Apparatus and method for tracking the fundamental frequency of an analog input signal
[NASA-CASE-ARC-11367-1] c 33 N83-21238

ANALYZERS

- Fluid phase analyzer Patent
[NASA-CASE-NPO-10691] c 14 N71-26199
Automated fluid chemical analyzer Patent
[NASA-CASE-XNP-09451] c 06 N71-26754
Micrometeoroid analyzer
[NASA-CASE-ARC-10443-1] c 14 N73-20477
NDIR gas analyzer based on absorption modulation ratios for known and unknown samples
[NASA-CASE-ARC-10802-1] c 35 N75-30502
Cosmic dust analyzer
[NASA-CASE-MSC-13802-2] c 35 N76-15431
Optically selective, acoustically resonant gas detecting transducer
[NASA-CASE-ARC-10639-1] c 35 N78-13400

ANEMOMETERS

- Anemometer with braking mechanism Patent
[NASA-CASE-XMF-05224] c 14 N71-23726
Maxometers (peak wind speed anemometers)
[NASA-CASE-MFS-20916] c 14 N73-25460
A radionuclide counting technique for measuring wind velocity and direction
[NASA-CASE-LAR-12971-1] c 47 N83-14863

ANGIOGRAPHY

- Contour detector and data acquisition system for the left ventricular outline
[NASA-CASE-ARC-10985-1] c 52 N79-10724

ANGLE OF ATTACK

- Angle detector
[NASA-CASE-ARC-11036-1] c 35 N78-32395
Aerodynamic side-force alleviator means
[NASA-CASE-LAR-12326-1] c 02 N81-14968
Model mount system for testing flutter
[NASA-CASE-LAR-12950-1] c 09 N83-25727

ANGLES (GEOMETRY)

- Internal flare angle gauge Patent
[NASA-CASE-XMF-04415] c 14 N71-24693
Method for generating ultra-precise angles Patent
[NASA-CASE-XGS-04173] c 19 N71-26674
Rotating raster generator
[NASA-CASE-FRC-10071-1] c 32 N74-20813

ANGULAR ACCELERATION

- Angular accelerometer Patent
[NASA-CASE-XMS-05936] c 14 N70-41682

ANGULAR CORRELATION

- Device for determining relative angular position between a spacecraft and a radiation emitting celestial body
[NASA-CASE-GSC-11444-1] c 14 N73-28490

ANGULAR DISTRIBUTION

- Noncontacting method for measuring angular deflection
[NASA-CASE-LAR-12178-1] c 74 N80-21138
Portable 90 deg proof loading device
[NASA-CASE-MSC-20250-1] c 37 N83-29707

ANGULAR MOMENTUM

- Stretch de-spin mechanism Patent
[NASA-CASE-XGS-00619] c 30 N70-40016
Rim inertial measuring system
[NASA-CASE-LAR-12052-1] c 18 N81-29152

ANGULAR RESOLUTION

- Angular measurement system Patent
[NASA-CASE-XMF-00447] c 14 N70-33179

ANGULAR VELOCITY

- Angular position and velocity sensing apparatus Patent
[NASA-CASE-XGS-05680] c 14 N71-17585
Speed control device for a heavy duty shaft --- solar sails for spacecraft propulsion
[NASA-CASE-NPO-14170-1] c 37 N81-15364
Interferometric angle monitor
[NASA-CASE-GSC-12614-1] c 74 N83-32577

ANHYDRIDES

- Perfluoroalkylene dioxy-bis-(4-phthalic anhydrides and oxy-bis-(perfluoroalkyleneoxyphthalic anhydrides)
[NASA-CASE-MFS-22356-1] c 23 N75-30256
Catalysts for polyimide foams from aromatic isocyanates and aromatic dianhydrides --- flame retardant foams
[NASA-CASE-ARC-11107-1] c 25 N80-16116
Prepolymer dianhydrides
[NASA-CASE-NPO-13899-1] c 27 N80-32515
The 1 - (dialkoxyphosphonyl)methyl - 2,4- and -2,6-dinitro- and diamino benzenes and their derivatives
[NASA-CASE-ARC-11425-1] c 23 N83-28076

ANILINE

- Process for preparation of dianilinosilanes Patent
[NASA-CASE-XMF-06409] c 06 N71-23230

ANIMALS

- Automatic real-time pair-feeding system for animals
[NASA-CASE-ARC-10302-1] c 51 N74-15778
Tread drum for animals --- having an electrical shock station
[NASA-CASE-ARC-10917-1] c 51 N78-27733

ANISOTROPIC MEDIA

Hybrid composite laminate structures
[NASA-CASE-LEW-12118-1] c 24 N77-27188

ANNEALING

Recovery of radiation damaged solar cells through thermal annealing
[NASA-CASE-XGS-04047-2] c 03 N72-11062
CDS solid state phase insensitive ultrasonic transducer --- annealing dadmium sulfide crystals
[NASA-CASE-LAR-12304-1] c 35 N80-20559

ANNULAR NOZZLES

Rocket thrust chamber Patent
[NASA-CASE-XLE-00145] c 28 N70-36806
Annular slit colloid thruster Patent
[NASA-CASE-GSC-10709-1] c 28 N71-25213

ANNULAR PLATES

Annular supersonic decelerator or drogue Patent
[NASA-CASE-XLE-00222] c 02 N70-37939
Multiple plate hydrostatic viscous damper
[NASA-CASE-LEW-12445-1] c 37 N81-22360

ANNULI

A brushless dc tachometer
[NASA-CASE-NPO-15706-1] c 35 N82-26633

ANODES

Heat activated cell with alkali anode and alkali salt electrolyte Patent
[NASA-CASE-LEW-11358] c 03 N71-26084
Storage battery comprising negative plates of a wedge shaped configuration --- for preventing shape change induced malfunctions
[NASA-CASE-NPO-11806-1] c 44 N74-19693
Resistive anode image converter
[NASA-CASE-HQN-10876-1] c 33 N76-27473
Rechargeable battery which combats shape change of the zinc anode
[NASA-CASE-HQN-10862-1] c 44 N76-29699
Arc control in compact arc lamps
[NASA-CASE-NPO-10870-1] c 33 N77-22386
Multiple anode arc lamp system
[NASA-CASE-NPO-10857-1] c 33 N80-14330
Ion sputter textured graphite --- anode collector plates in electron tube devices
[NASA-CASE-LEW-12919-1] c 24 N83-10117
Ring-cusp ion thruster with shell anode
[NASA-CASE-LEW-13881-1] c 72 N83-21903

ANODIC COATINGS

Temperature reducing coating for metals subject to flame exposure Patent
[NASA-CASE-XLE-00035] c 33 N71-29151
Anode for ion thruster
[NASA-CASE-LEW-12048-1] c 20 N77-20162
Variable anodic thermal control coating
[NASA-CASE-LAR-12719-1] c 44 N83-34449

ANODIZING

Epitaxial thinning process
[NASA-CASE-NPO-15786-1] c 25 N82-26397

ANTENNA ARRAYS

Antenna system using parasitic elements and two driven elements at 90 deg angle fed 180 deg out of phase Patent
[NASA-CASE-XLA-00414] c 07 N70-38200
Multiple input radio receiver Patent
[NASA-CASE-XLA-00901] c 07 N71-10775
Horn feed having overlapping apertures Patent
[NASA-CASE-GSC-10452] c 07 N71-12396
Tracking antenna system Patent
[NASA-CASE-GSC-10553-1] c 07 N71-19854
Radar antenna system for acquisition and tracking Patent
[NASA-CASE-XMS-09610] c 07 N71-24625
Antenna array phase quadrature tracking system Patent
[NASA-CASE-MS-12205-1] c 07 N71-27056
Antenna array at focal plane of reflector with coupling network for beam switching Patent
[NASA-CASE-GSC-10220-1] c 07 N71-27233
Triaxial antenna Patent
[NASA-CASE-XGS-02290] c 07 N71-28809
Virtual wall slot circularly polarized planar array antenna
[NASA-CASE-NPO-10301] c 07 N72-11148
Stacked array of omnidirectional antennas
[NASA-CASE-LAR-10545-1] c 09 N72-21244
Circularly polarized antenna
[NASA-CASE-ERC-10214] c 09 N72-31235
Phase control circuits using frequency multiplications for phased array antennas
[NASA-CASE-ERC-10285] c 10 N73-16206
Plural beam antenna
[NASA-CASE-GSC-11013-1] c 09 N73-19234
Amplitude steered array
[NASA-CASE-GSC-11446-1] c 33 N74-20860
Position determination systems --- using orbital antenna scan of celestial bodies
[NASA-CASE-MS-12593-1] c 17 N76-21250

Thin conformal antenna array for microwave power conversions

[NASA-CASE-NPO-13886-1] c 32 N78-24391
RF beam center location method and apparatus for power transmission system
[NASA-CASE-NPO-13821-1] c 44 N78-28594
Phased array antenna control
[NASA-CASE-MS-14939-1] c 32 N79-11264
Phase conjugation method and apparatus for an active retrodirective antenna array
[NASA-CASE-NPO-13641-1] c 32 N79-24210
Scannable beam forming interferometer antenna array system
[NASA-CASE-GSC-12365-1] c 32 N80-28578
Frequency translating phase conjugation circuit for active retrodirective antenna array --- microwave transmission
[NASA-CASE-NPO-14536-1] c 32 N81-14185
Coaxial phased array antenna
[NASA-CASE-MS-16800-1] c 32 N81-14187
Baseband signal combiner for large aperture antenna array
[NASA-CASE-NPO-14641-1] c 32 N81-29308
Cavity-backed, micro-strip dipole antenna array
[NASA-CASE-MS-18606-1] c 32 N82-11336
Multiple-beam, high-power, precision pointing antenna system
[NASA-CASE-NPO-15406-1] c 33 N82-12345
Spiral slotted phased antenna array
[NASA-CASE-MS-18532-1] c 32 N82-27558
Method and apparatus for self-calibration and phasing of array antenna
[NASA-CASE-NPO-15920-1] c 32 N82-33593
Electronic con scanning spacecraft communication system
[NASA-CASE-NPO-15899-1] c 32 N83-19970

ANTENNA COMPONENTS

Digital servo controller --- for rotating antenna shaft
[NASA-CASE-KSC-10769-1] c 33 N74-29556
Faraday rotation measurement method and apparatus
[NASA-CASE-NPO-14839-1] c 35 N82-15381

ANTENNA COUPLERS

Dual band combiner for horn antenna
[NASA-CASE-NPO-14519-1] c 32 N80-23524

ANTENNA DESIGN

Low noise single aperture multimode monopulse antenna feed system Patent
[NASA-CASE-XNP-01735] c 07 N71-22750
Nose cone mounted heat resistant antenna Patent
[NASA-CASE-XMS-04312] c 07 N71-22984
Antenna array phase quadrature tracking system Patent
[NASA-CASE-MS-12205-1] c 07 N71-27056
Unfurlable structure including coiled strips thrust launched upon tension release Patent
[NASA-CASE-HQN-00937] c 07 N71-28979
Antenna design for surface wave suppression Patent
[NASA-CASE-XLA-10772] c 07 N71-28980
Target acquisition antenna
[NASA-CASE-GSC-10064-1] c 10 N72-22235
Collapsible high gain antenna
[NASA-CASE-KSC-10392] c 07 N73-26117
Dish antenna having switchable beamwidth --- with truncated concave ellipsoid subreflector
[NASA-CASE-GSC-11760-1] c 33 N75-19516
Horn antenna having V-shaped corrugated slots
[NASA-CASE-LAR-11112-1] c 32 N76-15330
Highly efficient antenna system using a corrugated horn and scanning hyperbolic reflector
[NASA-CASE-NPO-13568-1] c 32 N76-21365
Furlable antenna --- antenna design
[NASA-CASE-NPO-13553-1] c 33 N76-32457
Collapsible corrugated horn antenna
[NASA-CASE-LAR-11745-1] c 32 N80-29539
Multiple band circularly polarized microstrip antenna
[NASA-CASE-MS-18334-1] c 32 N80-32604
Spiral slotted phased antenna array
[NASA-CASE-MS-18532-1] c 32 N82-27558

ANTENNA FEEDS

Multi-feed cone Cassegrain antenna Patent
[NASA-CASE-NPO-10539] c 07 N71-11285
Horn feed having overlapping apertures Patent
[NASA-CASE-GSC-10452] c 07 N71-12396
Target acquisition antenna
[NASA-CASE-GSC-10064-1] c 10 N72-22235
Composite antenna feed
[NASA-CASE-GSC-11046-1] c 07 N73-28013
Low loss dichroic plate
[NASA-CASE-NPO-13171-1] c 32 N74-11000
High efficiency multifrequency feed
[NASA-CASE-GSC-11909] c 32 N74-20863
Single frequency, two feed dish antenna having switchable beamwidth
[NASA-CASE-GSC-11968-1] c 32 N76-15329

Reflex feed system for dual frequency antenna with frequency cutoff means

[NASA-CASE-NPO-14022-1] c 32 N78-31321
Antenna feed system for receiving circular polarization and transmitting linear polarization
[NASA-CASE-NPO-14362-1] c 32 N80-16261
Multifrequency broadband polarized horn antenna
[NASA-CASE-NPO-14588-1] c 32 N81-25278
Microwave switching power divider --- antenna feeds
[NASA-CASE-GSC-12420-1] c 33 N82-16340
Method and apparatus for self-calibration and phasing of array antenna
[NASA-CASE-NPO-15920-1] c 32 N82-33593
Focal axis resolver for offset reflector antennas
[NASA-CASE-GSC-12630-1] c 33 N83-36355

ANTENNA RADIATION PATTERNS

Broadband choke for antenna structure
[NASA-CASE-XMS-05303] c 07 N69-27462
Dual mode horn antenna Patent
[NASA-CASE-XNP-01057] c 07 N71-15907
Electronic scanning of 2-channel monopulse patterns Patent
[NASA-CASE-GSC-10299-1] c 09 N71-24804
High impact antenna Patent
[NASA-CASE-NPO-10231] c 07 N71-26101
Triaxial antenna Patent
[NASA-CASE-XGS-02290] c 07 N71-28809
Lightning tracking system
[NASA-CASE-KSC-10729-1] c 09 N73-32110
Highly efficient antenna system using a corrugated horn and scanning hyperbolic reflector
[NASA-CASE-NPO-13568-1] c 32 N76-21365
Coaxial phased array antenna
[NASA-CASE-MS-16800-1] c 32 N81-14187
Multiple-beam, high-power, precision pointing antenna system
[NASA-CASE-NPO-15406-1] c 33 N82-12345
Method and apparatus for self-calibration and phasing of array antenna
[NASA-CASE-NPO-15920-1] c 32 N82-33593

ANTENNAS

Self-erecting reflector Patent
[NASA-CASE-XGS-09190] c 31 N71-16102
High impact antenna Patent
[NASA-CASE-NPO-10231] c 07 N71-26101
Collapsible antenna boom and transmission line Patent
[NASA-CASE-MFS-20068] c 07 N71-27191
Conical reflector antenna
[NASA-CASE-NPO-10303] c 07 N72-22127
Coupled cavity traveling wave tube with velocity tapering
[NASA-CASE-LEW-12296-1] c 33 N82-26568
Articulated joint for deployable structures
[NASA-CASE-NPO-16038-1] c 37 N83-20157
Antenna groud replacement system
[NASA-CASE-NPO-15202-1] c 27 N83-34043

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[NASA-CASE-GSC-12046-1] c 52 N79-14750

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Hybrid lubrication system and bearing Patent
[NASA-CASE-XNP-01641] c 15 N71-22997
Rolling element bearings Patent
[NASA-CASE-XLE-09527-2] c 15 N71-26189
High speed hybrid bearing comprising a fluid bearing and a rolling bearing connected in series
[NASA-CASE-LEW-11152-1] c 15 N73-32359
Production of hollow components for rolling element bearings by diffusion welding
[NASA-CASE-LEW-11026-1] c 15 N73-33383
Method of making bearing materials --- self-lubricating, oxidation resistant composites for high temperature applications
[NASA-CASE-LEW-11930-4] c 24 N79-17916
Method of making bearing material
[NASA-CASE-LEW-11930-3] c 24 N80-33482

ANTIGRAVITY

Anti-gravity device
[NASA-CASE-MFS-22758-1] c 70 N75-26789

ANTIHISTAMINICS

Indomethacin-anthistamine combination for gastric ulceration control
[NASA-CASE-ARC-11118-2] c 52 N81-14613
Indomethacin-anthistamine combination for gastric ulceration control
[NASA-CASE-ARC-11118-1] c 52 N81-29764

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Silicon nitride coated, plastic covered solar cell
[NASA-CASE-LEW-11496-1] c 44 N77-14580
Broadband optical radiation detector
[US-PATENT-4,262,198] c 74 N83-19597

ANVILS

Apparatus for making diamonds
[NASA-CASE-MFS-20698] c 15 N72-20446

APERTURES

- Focussing system for an ion source having apertured electrodes Patent
[NASA-CASE-XNP-03332] c 09 N71-10618
- Threadless fastener apparatus Patent
[NASA-CASE-XFR-05302] c 15 N71-23254
- On-film optical recording of camera lens settings
[NASA-CASE-MS-C-12363-1] c 14 N73-26431
- Method of forming aperture plate for electron microscope
[NASA-CASE-ARC-10448-2] c 74 N75-12732
- Method of making an apertured casting --- using duplicate mold
[NASA-CASE-LEW-11169-1] c 37 N76-23570
- Electron microscope aperture system
[NASA-CASE-ARC-10448-3] c 35 N77-14408
- Heat reflecting field stop
[NASA-CASE-LAR-12443-1] c 74 N82-19030

APOLLO PROJECT

- Space suit
[NASA-CASE-MS-C-12609-1] c 05 N73-32012

APOLLO SPACECRAFT

- Energy absorbing structure Patent Application
[NASA-CASE-MS-C-12279-1] c 15 N70-35679
- Low onset rate energy absorber
[NASA-CASE-MS-C-12279] c 15 N72-17450

APPLICATIONS OF MATHEMATICS

- Apparatus for computing square roots Patent
[NASA-CASE-XGS-04768] c 08 N71-19437

APPROACH

- Spectrally balanced chromatic landing approach lighting system
[NASA-CASE-ARC-10990-1] c 04 N82-16059

AQUATIC PLANTS

- Method for treating wastewater using microorganisms and vascular aquatic plants
[NASA-CASE-NSTL-10] c 45 N84-12654

AQUEOUS SOLUTIONS

- Anti-fog composition --- for prevention of fogging on surfaces such as space helmet visors and windshields
[NASA-CASE-MS-C-13530-2] c 23 N75-14834
- Automated system for identifying traces of organic chemical compounds in aqueous solutions
[NASA-CASE-NPO-13063-1] c 25 N76-18245
- Method for separating biological cells --- suspended in aqueous polymer systems
[NASA-CASE-MFS-23883-1] c 51 N80-16715
- Method of forming dynamic membrane on stainless steel support
[NASA-CASE-MS-C-18172-1] c 26 N80-19237
- Method of cross-linking polyvinyl alcohol and other water soluble resins
[NASA-CASE-LEW-13103-1] c 27 N80-32516
- Electrophoresis oxidation system for measurement of organic concentration in water
[NASA-CASE-MS-C-16497-1] c 25 N82-12166
- Liquid immersion apparatus for minute articles
[NASA-CASE-MFS-25363-1] c 37 N82-12441
- Coal desulfurization by aqueous chlorination
[NASA-CASE-NPO-14902-1] c 25 N82-29371
- Hydrodesulfurization of chlorinated coal
[NASA-CASE-NPO-15304-1] c 25 N83-31743

ARC DISCHARGES

- Device for preventing high voltage arcing in electron beam welding Patent
[NASA-CASE-XMF-08522] c 15 N71-19486
- Self-repeating plasma generator having communicating annular and linear arc discharge passages Patent
[NASA-CASE-XLA-03103] c 25 N71-21693
- Method and apparatus for nondestructive testing --- using high frequency arc discharges
[NASA-CASE-MFS-21233-1] c 38 N74-15395
- Sustained arc ignition system
[NASA-CASE-LEW-12444-1] c 33 N77-28385

ARC HEATING

- Electric-arc heater Patent
[NASA-CASE-XLA-00330] c 33 N70-34540
- Electric arc device for heating gases Patent
[NASA-CASE-XAC-00319] c 25 N70-41628
- Annular arc accelerator shock tube
[NASA-CASE-NPO-13528-1] c 09 N77-10071

ARC JET ENGINES

- Magneto-plasma-dynamic arc thruster
[NASA-CASE-LEW-11180-1] c 25 N73-25760

ARC LAMPS

- Starting circuit for vapor lamps and the like Patent
[NASA-CASE-XNP-01058] c 09 N71-12540
- Compact, high intensity arc lamp with internal magnetic field producing means
[NASA-CASE-NPO-11510-1] c 33 N77-21315
- Depressurization of arc lamps
[NASA-CASE-NPO-10790-1] c 33 N77-21316
- Arc control in compact arc lamps
[NASA-CASE-NPO-10870-1] c 33 N77-22386
- Purging means and method for Xenon arc lamps
[NASA-CASE-NPO-11978] c 31 N78-17238

- Multiple anode arc lamp system
[NASA-CASE-NPO-10857-1] c 33 N80-14330

ARC SPRAYING

- Arc spray fabrication of metal matrix composite monolayer --- high temperature fiber-reinforced superalloy composites
[NASA-CASE-LEW-13828-1] c 24 N84-15203

ARC WELDING

- Spectral method for monitoring atmospheric contamination of inert-gas welding shields Patent
[NASA-CASE-XMF-02039] c 15 N71-15871
- Automatic closed circuit television arc guidance control Patent
[NASA-CASE-MFS-13046] c 07 N71-19433
- Device for preventing high voltage arcing in electron beam welding Patent
[NASA-CASE-XMF-08522] c 15 N71-19486
- Welding skate with computerized control Patent
[NASA-CASE-XMF-07069] c 15 N71-23815
- Grain refinement control in TIG arc welding
[NASA-CASE-MS-C-19095-1] c 37 N75-19683

ARCHITECTURE

- Foldable construction block
[NASA-CASE-MS-C-12233-2] c 32 N73-13921

ARCHITECTURE (COMPUTERS)

- Massively parallel processor computer
[NASA-CASE-GSC-12223-1] c 60 N83-25378
- Distributed multiport memory architecture
[NASA-CASE-NPO-15342-1] c 60 N83-32342
- High dynamic global positioning system receiver
[NASA-CASE-NPO-16171-1-CU] c 04 N84-12151

ARM (ANATOMY)

- Apparatus for applying simulator g-forces to an arm of an aircraft simulator pilot
[NASA-CASE-LAR-10550-1] c 09 N74-30597
- Orthotic arm joint --- for use in mechanical arms
[NASA-CASE-MFS-21611-1] c 54 N75-12616
- Controller arm for a remotely related slave arm
[NASA-CASE-ARC-11052-1] c 37 N79-28551

ARMATURES

- Direct current motor with stationary armature and field Patent
[NASA-CASE-XGS-05290] c 09 N71-25999
- Solenoid valve including guide for armature and valve member
[NASA-CASE-GSC-10607-1] c 15 N72-20442
- Electric motive machine including magnetic bearing
[NASA-CASE-XGS-07805] c 15 N72-33476
- Natural turbulence electrical power generator --- using wave action or random motion
[NASA-CASE-LAR-11551-1] c 44 N80-29834
- Linear magnetic bearings --- active magnetic suspension of armatures
[NASA-CASE-GSC-12582-1] c 37 N81-16469
- Reciprocating linear motor
[NASA-CASE-GSC-12773-1] c 33 N83-12332
- Linear magnetic bearings
[NASA-CASE-GSC-12582-2] c 37 N83-13460

AROMATIC COMPOUNDS

- Ultraviolet and thermally stable polymer compositions
[NASA-CASE-ARC-10592-1] c 27 N74-21156
- Ultraviolet and thermally stable polymer compositions
[NASA-CASE-ARC-10592-2] c 27 N76-32315
- Polymeric foams from cross-linkable poly-n-arylenebenzimidazoles
[NASA-CASE-ARC-11008-1] c 27 N78-31232
- Process for preparing thermoplastic aromatic polyimides
[NASA-CASE-LAR-11828-1] c 27 N78-32261
- Curing agent for polyepoxides and epoxy resins and composites cured therewith --- preventing carbon fiber release
[NASA-CASE-LEW-13226-1] c 27 N81-17260
- The 1,1,1-triaryl-2,2,2-trifluoroethanes and process for their synthesis
[NASA-CASE-ARC-11097-1] c 25 N82-24312

ARRAYS

- Radio frequency arraying method for receivers
[NASA-CASE-NPO-14328-1] c 32 N80-18253
- Pyroelectric detector arrays
[NASA-CASE-LAR-12363-1] c 35 N82-31659
- Pyroelectric detector arrays
[NASA-CASE-LAR-12363-2] c 33 N83-24763

ARTERIES

- Arterial pulse wave pressure transducer
[NASA-CASE-GSC-11531-1] c 52 N74-27566

ARTIFICIAL CLOUDS

- Barium release system
[NASA-CASE-LAR-10670-1] c 06 N73-30097

ARTIFICIAL GRAVITY

- Rotating space station simulator Patent
[NASA-CASE-XLA-03127] c 11 N71-10776
- Artificial gravity spin deployment system Patent
[NASA-CASE-XNP-02595] c 31 N71-21881

- Space vehicle with artificial gravity and earth-like environment
[NASA-CASE-LEW-11101-1] c 31 N73-32750

ARTIFICIAL SATELLITES

- Gravity gradient attitude control system Patent
[NASA-CASE-GSC-10555-1] c 21 N71-27324

ASBESTOS

- Reconstituted asbestos matrix --- for use in fuel or electrolysis cells
[NASA-CASE-MS-C-12568-1] c 24 N76-14204

ASPECT RATIO

- Variable sweep wing aircraft Patent
[NASA-CASE-XLA-00221] c 02 N70-33266
- Variable-span aircraft Patent
[NASA-CASE-XLA-00166] c 02 N70-34178
- Variable sweep aircraft wing Patent
[NASA-CASE-XLA-00350] c 02 N70-38011

ASPHALT

- Thermoplastic rubber comprising ethylene-vinyl acetate copolymer, asphalt and fluxing oil
[NASA-CASE-NPO-08835-1] c 27 N78-33228

ASSAYING

- Rapid, quantitative determination of bacteria in water --- adenosine triphosphate
[NASA-CASE-GSC-12158-1] c 51 N83-27569

ASSEMBLIES

- Multiple Belleville spring assembly Patent
[NASA-CASE-XNP-00840] c 15 N70-38225
- Bearing seal usable in a gas turbine engine
[NASA-CASE-LEW-12477-1] c 37 N77-32501
- Foldable beam
[NASA-CASE-LAR-12077-1] c 31 N81-25259
- Resilient seal ring assembly with spring means applying force to wedge member --- cryogenic applications
[NASA-CASE-MFS-25678-1] c 37 N84-11497

ASTRONAUT LOCOMOTION

- Rotating space station simulator Patent
[NASA-CASE-XLA-03127] c 11 N71-10776
- Space suit pressure stabilizer Patent
[NASA-CASE-XLA-05332] c 05 N71-11194
- Equipotential space suit Patent
[NASA-CASE-LAR-10007-1] c 05 N71-11195
- Hard space suit Patent
[NASA-CASE-XAC-07043] c 05 N71-23161
- Fresh shortened convolute section for a pressurized suit Patent
[NASA-CASE-XMS-09637-1] c 05 N71-24730
- Locomotion and restraint aid Patent
[NASA-CASE-ARC-10153] c 05 N71-28619
- Walking boot assembly
[NASA-CASE-ARC-11101-1] c 54 N78-17675
- Spacesuit mobility knee joints
[NASA-CASE-ARC-11058-2] c 54 N79-24651

ASTRONAUT MANEUVERING EQUIPMENT

- Hand-held self-maneuvering unit Patent
[NASA-CASE-XMS-05304] c 05 N71-12336

ASTRONAUT PERFORMANCE

- Locomotion and restraint aid Patent
[NASA-CASE-ARC-10153] c 05 N71-28619
- Spacesuit mobility joints
[NASA-CASE-ARC-11058-1] c 54 N78-31735

ASTRONAUT TRAINING

- Training vehicle for controlling attitude Patent
[NASA-CASE-XMS-02977] c 11 N71-10746
- Mechanical simulator of low gravity conditions Patent
[NASA-CASE-MFS-10555] c 11 N71-19494
- Subgravity simulator Patent
[NASA-CASE-XMS-04798] c 11 N71-21474

ASTRONAUTS

- Emergency lunar communications system
[NASA-CASE-MFS-21042] c 07 N72-25171
- Manual actuator --- for spacecraft exercising machines
[NASA-CASE-MFS-21481-1] c 37 N74-18127

ASTRONAVIGATION

- Guidance and maneuver analyzer Patent
[NASA-CASE-XNP-09572] c 14 N71-15621

ASTRONOMICAL PHOTOGRAPHY

- Apparatus for photographing meteors
[NASA-CASE-LAR-10226-1] c 14 N73-19419

ASTRONOMICAL TELESCOPES

- Solar optical telescope dome control system Patent
[NASA-CASE-MS-C-10966] c 14 N71-19568
- Method and apparatus for aligning a laser beam projector Patent
[NASA-CASE-NPO-11087] c 23 N71-29125
- Star image motion compensator
[NASA-CASE-LAR-10523-1] c 14 N72-22444
- Anastigmatic three-mirror telescope
[NASA-CASE-MFS-23675-1] c 89 N79-10969

ASYMMETRY

Asymmetric polyimide separation membrane and method
[NASA-CASE-NPO-15431-1] c 25 N81-29178
Method for the preparation of thin-skinned asymmetric reverse osmosis membranes and products thereof
[NASA-CASE-ARC-11359-1] c 27 N82-28444

ATMOSPHERIC COMPOSITION

Atmospheric sampling devices
[NASA-CASE-NPO-11373] c 13 N72-25323
Apparatus for sampling particulates in gases
[NASA-CASE-HQN-10037-1] c 14 N73-27376
Monitoring atmospheric pollutants with a heterodyne radiometer transmitter-receiver
[NASA-CASE-NPO-11919-1] c 35 N74-11284
Chelate-modified polymers for atmospheric gas chromatography
[NASA-CASE-ARC-11154-1] c 25 N80-23383
Mobile sampler for use in acquiring samples of terrestrial atmospheric gases
[NASA-CASE-NPO-15220-1] c 45 N83-25217

ATMOSPHERIC DENSITY

System for indicating fuel-efficient aircraft altitude
[NASA-CASE-NPO-15351-2] c 06 N83-17536

ATMOSPHERIC ENTRY

Flight craft Patent
[NASA-CASE-XAC-02058] c 02 N71-16087
Means for measuring the electron density gradients of the plasma sheath formed around a space vehicle Patent
[NASA-CASE-XLA-06232] c 25 N71-20563
Orbital and entry tracking accessory for globes --- to provide range requirements for reentry vehicles to any landing site
[NASA-CASE-LAR-10626-1] c 19 N74-21015

ATMOSPHERIC ENTRY SIMULATION

Plasma accelerator Patent
[NASA-CASE-XLA-00675] c 25 N70-33267
Flow field simulation Patent
[NASA-CASE-LAR-11138] c 12 N71-20436

ATMOSPHERIC MOISTURE

Geodetic distance measuring apparatus
[NASA-CASE-GSC-12609-2] c 36 N83-29681

ATMOSPHERIC PHYSICS

Rocket borne instrument to measure electric fields inside electrified clouds
[NASA-CASE-KSC-10730-1] c 14 N73-32318

ATMOSPHERIC PRESSURE

Method of purifying metallurgical grade silicon employing reduced pressure atmospheric control
[NASA-CASE-NPO-14474-1] c 26 N80-14229

ATMOSPHERIC RADIATION

Method and apparatus for measuring solar activity and atmospheric radiation effects
[NASA-CASE-ERC-10276] c 14 N73-26432

ATMOSPHERIC REFRACTION

Geodetic distance measuring apparatus
[NASA-CASE-GSC-12609-1] c 36 N81-22344

ATMOSPHERIC SCATTERING

Clear air turbulence detector
[NASA-CASE-MFS-21244-1] c 36 N75-15028

ATMOSPHERIC SOUNDING

Microwave limb sounder --- measuring trace gases in the upper atmosphere
[NASA-CASE-NPO-14544-1] c 46 N82-12685
Method of an apparatus for measuring temperature and pressure --- remote sensing of the atmosphere
[NASA-CASE-GSC-12558-1] c 35 N82-29580
Digital control of diode laser for atmospheric spectroscopy
[NASA-CASE-NPO-16000-1] c 36 N83-24842

ATMOSPHERIC TEMPERATURE

System for indicating fuel-efficient aircraft altitude
[NASA-CASE-NPO-15351-2] c 06 N83-17536

ATMOSPHERIC TURBULENCE

Passive optical wind and turbulence detection system Patent
[NASA-CASE-XMF-14032] c 20 N71-16340
Focused laser Doppler velocimeter
[NASA-CASE-MFS-23178-1] c 35 N77-10493

ATOMIC EXCITATIONS

Means and method for calibrating a photon detector utilizing electron-photon coincidence
[NASA-CASE-NPO-15644-1] c 72 N82-24953

ATOMIZERS

Cryogenic cooling system Patent
[NASA-CASE-NPO-10467] c 23 N71-26654
Constant-output atomizer --- Inhalation therapy and aerosol research
[NASA-CASE-MFS-25631-1] c 34 N84-12406

ATS

Doppler frequency spread correction device for multiplex transmissions
[NASA-CASE-XGS-02749] c 07 N69-39978

ATTACHMENT

Wide temperature range electronic device with lead attachment
[NASA-CASE-ERC-10224-2] c 09 N73-27150

ATTENUATORS

Rotary vane attenuator wherein rotor has orthogonally disposed resistive and dielectric cards
[NASA-CASE-NPO-11418-1] c 14 N73-13420
Pulse transducer with artifact signal attenuator --- heart rate sensors
[NASA-CASE-FRC-11012-1] c 52 N80-23969

ATTITUDE (INCLINATION)

Analog spatial maneuver computer
[NASA-CASE-GSC-10880-1] c 08 N72-11172
Spacecraft attitude sensor
[NASA-CASE-GSC-10890-1] c 21 N73-30640
Interferometer mirror tilt correcting system
[NASA-CASE-NPO-13687-1] c 35 N78-18391

ATTITUDE CONTROL

Visual target for retrofire attitude control
[NASA-CASE-XMS-12158-1] c 31 N69-27499
Three axis controller Patent
[NASA-CASE-XFR-00181] c 21 N70-33279
Method and apparatus for determining satellite orientation utilizing spatial energy sources Patent
[NASA-CASE-XGS-00466] c 21 N70-34297
Attitude and propellant flow control system and method Patent
[NASA-CASE-XMF-00185] c 21 N70-34539
Space vehicle attitude control Patent
[NASA-CASE-XNP-00465] c 21 N70-35395
Attitude control for spacecraft Patent
[NASA-CASE-XNP-00294] c 21 N70-36938
Attitude orientation of spin-stabilized space vehicles Patent
[NASA-CASE-XLA-00281] c 21 N70-36943
Ejection unit Patent
[NASA-CASE-XNP-00676] c 15 N70-38996
Three-axis controller Patent
[NASA-CASE-XAC-01040] c 05 N70-41581
Training vehicle for controlling attitude Patent
[NASA-CASE-XMS-02977] c 11 N71-10746
Canopus detector including automotive gain control of photomultiplier tube Patent
[NASA-CASE-XNP-03914] c 21 N71-10771
Automatic balancing device Patent
[NASA-CASE-LAR-10774] c 10 N71-13545
Spacecraft experiment pointing and attitude control system Patent
[NASA-CASE-XLA-05464] c 21 N71-14132
Attitude control system Patent
[NASA-CASE-XGS-04393] c 21 N71-14159
Control system for rocket vehicles Patent
[NASA-CASE-XLA-01163] c 21 N71-15582
Reactance control system Patent
[NASA-CASE-XMF-01598] c 21 N71-15583
Spacecraft attitude detection system by stellar reference Patent
[NASA-CASE-XGS-03431] c 21 N71-15642
Three-axis finger tip controller for switches Patent
[NASA-CASE-XAC-02405] c 09 N71-16089
Thrust and direction control apparatus Patent
[NASA-CASE-XLE-03583] c 31 N71-17629
Attitude sensor for space vehicles Patent
[NASA-CASE-XLA-00793] c 21 N71-22880
Attitude control system for sounding rockets Patent
[NASA-CASE-XGS-01654] c 31 N71-24750
Voice operated controller Patent
[NASA-CASE-XLA-04063] c 31 N71-33160
Attitude sensor
[NASA-CASE-LAR-10586-1] c 19 N74-15089
Temperature compensated digital inertial sensor --- circuit for maintaining inertial element of gyroscope or accelerometer at constant position
[NASA-CASE-NPO-13044-1] c 35 N74-15094
Sun direction detection system
[NASA-CASE-NPO-13722-1] c 74 N77-22951
Thrust augmented spin recovery device
[NASA-CASE-LAR-11970-2] c 08 N81-19130
Propulsion apparatus and method using boil-off gas from a cryogenic liquid --- controlling spacecraft attitude and drag
[NASA-CASE-MFS-25946-1] c 20 N84-15183
Aircraft control position indicator
[NASA-CASE-LAR-12984-1] c 06 N84-20522

ATTITUDE GYROS

Space vehicle attitude control Patent
[NASA-CASE-XNP-00465] c 21 N70-35395
Attitude control system
[NASA-CASE-MFS-22787-1] c 15 N77-10113

ATTITUDE INDICATORS

Photosensitive device to detect bearing deviation Patent
[NASA-CASE-XNP-00438] c 21 N70-35089
Controllers Patent
[NASA-CASE-XMS-07487] c 15 N71-23255

Combined optical attitude and altitude indicating instrument Patent
[NASA-CASE-XLA-01907] c 14 N71-23268
Head-up attitude display
[NASA-CASE-ERC-10392] c 21 N73-14692
Attitude sensor
[NASA-CASE-LAR-10586-1] c 19 N74-15089
Translatory shock absorber for attitude sensors
[NASA-CASE-MFS-22905-1] c 19 N76-22284
Air speed and attitude probe
[NASA-CASE-FRC-11009-1] c 06 N80-18036
Aircraft body-axis rotation measurement system
[NASA-CASE-FRC-11043-1] c 06 N83-33882

ATTITUDE STABILITY
Dynamic precession damper for spin stabilized vehicles Patent
[NASA-CASE-XLA-01989] c 21 N70-34295
Apparatus for automatically stabilizing the attitude of a nonrigid vehicle
[NASA-CASE-ARC-10134] c 30 N72-17873
Method of damping nutation motion with minimum spin axis attitude disturbance
[NASA-CASE-GSC-12551-1] c 18 N83-28064

AUDIO EQUIPMENT
Audio system with means for reducing noise effects
[NASA-CASE-NPO-11631] c 10 N73-12244

AUDIO FREQUENCIES
Signal path series step biased multidevice high efficiency amplifier Patent
[NASA-CASE-GSC-10668-1] c 07 N71-28430
Audio frequency marker system
[NASA-CASE-NPO-11147] c 14 N72-27408

AUDITORY DEFECTS
Hearing aid malfunction detection system
[NASA-CASE-MSC-14916-1] c 33 N78-10375

AUDITORY PERCEPTION
Auditory display for the blind
[NASA-CASE-HQN-10832-1] c 71 N74-21014

AUDITORY SIGNALS
Audio signal processor Patent
[NASA-CASE-MSC-12223-1] c 07 N71-26181
Audio system with means for reducing noise effects
[NASA-CASE-NPO-11631] c 10 N73-12244

AUDITORY STIMULI
Auditory display for the blind
[NASA-CASE-HQN-10832-1] c 71 N74-21014

AUGER EFFECT
Apparatus for accurately preloading auger attachment means for frangible protective material
[NASA-CASE-MSC-18791-1] c 37 N83-36482

AUSTENITIC STAINLESS STEELS
Nickel aluminum coated low alloy stainless steel
[NASA-CASE-LEW-11267-1] c 17 N73-32414
Device for measuring the ferrite content in an austenitic stainless-steel weld
[NASA-CASE-MFS-22907-1] c 26 N76-18257

AUTOCALVES
System for sterilizing objects --- cleaning space vehicle systems
[NASA-CASE-KSC-11085-1] c 54 N81-24724

AUTOCORRELATION
Linear three-tap feedback shift register Patent
[NASA-CASE-NPO-10351] c 08 N71-12503
Correlation function apparatus Patent
[NASA-CASE-XNP-00746] c 07 N71-21476
An electro-optical Doppler tracker means and method for optical correlation of synthetic aperture radar data
[NASA-CASE-NPO-14998-1] c 33 N81-15194

AUTOMATIC CONTROL
Bus voltage compensation circuit for controlling direct current motor
[NASA-CASE-XMS-04215-1] c 09 N69-39987
Optical alignment system Patent
[NASA-CASE-XNP-02029] c 14 N70-41955
Pulsed energy power system Patent
[NASA-CASE-MSC-13112] c 03 N71-11057
Automatic balancing device Patent
[NASA-CASE-LAR-10774] c 10 N71-13545
Apparatus for welding torch angle and seam tracking control Patent
[NASA-CASE-XMF-03287] c 15 N71-15607
Leak detector Patent
[NASA-CASE-LAR-10323-1] c 12 N71-17573
Solar optical telescope dome control system Patent
[NASA-CASE-MSC-10966] c 14 N71-19568
Automatic welding speed controller Patent
[NASA-CASE-XMF-01730] c 15 N71-23050
Indexing microwave switch Patent
[NASA-CASE-XNP-06507] c 09 N71-23548
Automatic pump Patent
[NASA-CASE-XNP-04731] c 15 N71-24042
Automatic fatigue test temperature programmer Patent
[NASA-CASE-XLA-02059] c 33 N71-24276
Automatic battery charger Patent
[NASA-CASE-XNP-04758] c 03 N71-24605

Transistor servo system including a unique differential amplifier circuit Patent
[NASA-CASE-XMF-05195] c 10 N71-24661

Electron beam tube containing a multiple cathode array employing indexing means for cathode substitution Patent
[NASA-CASE-NPO-10625] c 09 N71-26182

Automatic signal range selector for metering devices Patent
[NASA-CASE-XMS-06497] c 14 N71-26244

Automated fluid chemical analyzer Patent
[NASA-CASE-XNP-09451] c 06 N71-26754

Automatic control of liquid cooling garment by cutaneous and external auditory meatus temperatures
[NASA-CASE-MSC-13917-1] c 05 N72-15098

Optimal control system for an electric motor driven vehicle
[NASA-CASE-NPO-11210] c 11 N72-20244

Automated equipotential plotter
[NASA-CASE-NPO-11134] c 09 N72-21246

Ion thruster magnetic field control
[NASA-CASE-LEW-10835-1] c 28 N72-22771

Temperature controller for a fluid cooled garment
[NASA-CASE-ARC-10599-1] c 05 N73-26071

Redundant speed control for brushless Hall effect motor
[NASA-CASE-MFS-20207-1] c 09 N73-32107

Programmable physiological infusion
[NASA-CASE-ARC-10447-1] c 52 N74-22771

Automatically operable self-leveling load table
[NASA-CASE-MFS-22039-1] c 09 N75-12968

Automatic focus control for facsimile cameras
[NASA-CASE-LAR-11213-1] c 35 N75-15014

Traffic survey system --- using optical scanners
[NASA-CASE-MFS-22631-1] c 66 N76-19888

Automatic visual inspection system for microelectronics
[NASA-CASE-NPO-13282] c 38 N78-17396

Automatic fluid dispenser
[NASA-CASE-ARC-10820-1] c 35 N78-19466

Method for producing solar energy panels by automation
[NASA-CASE-LEW-12541-1] c 44 N78-25529

Circuit for automatic load sharing in parallel converter modules
[NASA-CASE-NPO-14056-1] c 33 N79-24257

Method for forming a solar array strip
[NASA-CASE-NPO-13652-3] c 44 N80-14474

Method of growing a ribbon crystal particularly suited for facilitating automated control of ribbon width
[NASA-CASE-NPO-14295-1] c 76 N80-32245

Integrated control system for a gas turbine engine
[NASA-CASE-LEW-12594-2] c 07 N81-19116

Solar energy control system --- temperature measurement
[NASA-CASE-MFS-25287-1] c 44 N82-18686

Hydraulic actuator mechanism to control aircraft spoiler movements through dual input commands
[NASA-CASE-LAR-12412-1] c 08 N82-24205

Automatic weld torch guidance control system
[NASA-CASE-MFS-25807] c 37 N83-20154

Automatic thermal switch --- spacecraft applications
[NASA-CASE-GSC-12553-1] c 34 N83-28356

Automatic oscillator frequency control system
[NASA-CASE-GSC-12804-1] c 33 N83-35228

Self-indexing latch system
[NASA-CASE-MFS-25956-1] c 37 N84-20860

AUTOMATIC CONTROL VALVES
Check valve assembly for a probe Patent
[NASA-CASE-XLA-00128] c 15 N70-37925

Metal valve pintle with encapsulated elastomeric body Patent
[NASA-CASE-MSC-12116-1] c 15 N71-17648

Semitoroidal diaphragm cavitating valve Patent
[NASA-CASE-XNP-09704] c 12 N71-18615

Valving device for automatic refilling in cryogenic liquid systems
[NASA-CASE-NPO-11177] c 15 N72-17453

Combined pressure regulator and shutoff valve
[NASA-CASE-NPO-13201-1] c 37 N75-15050

Iodine generator for reclaimed water purification
[NASA-CASE-MSC-14632-1] c 54 N78-14784

Automatic compression adjusting mechanism for internal combustion engines
[NASA-CASE-MSC-18807-1] c 37 N83-36483

AUTOMATIC FREQUENCY CONTROL
Automatic acquisition system for phase-lock loop
[NASA-CASE-XGS-04994] c 09 N69-21543

Audio signal processor Patent
[NASA-CASE-MSC-12223-1] c 07 N71-26181

Automatic frequency control loop including synchronous switching circuits
[NASA-CASE-KSC-10393] c 09 N72-21247

Self-tuning bandpass filter
[NASA-CASE-ARC-10264-1] c 09 N73-20231

AUTOMATIC GAIN CONTROL

Automatic gain control system
[NASA-CASE-XMS-05307] c 09 N69-24330

Amplifier drift tester
[NASA-CASE-XMS-05562-1] c 09 N69-39986

Self-tuning bandpass filter
[NASA-CASE-ARC-10264-1] c 09 N73-20231

Digital automatic gain amplifier
[NASA-CASE-KSC-11008-1] c 33 N79-22373

Automatic level control circuit
[NASA-CASE-KSC-11170-1] c 33 N83-36356

AUTOMATIC TEST EQUIPMENT
Visual examination apparatus
[NASA-CASE-ARC-10329-1] c 05 N73-26072

Automatic microbial transfer device
[NASA-CASE-LAR-11354-1] c 35 N75-27330

Visual examination apparatus
[US-PATENT-RE-28,921] c 52 N76-30793

Automated clinical system for chromosome analysis
[NASA-CASE-NPO-13913-1] c 52 N79-12694

Automatic flowmeter calibration system
[NASA-CASE-KSC-11076-1] c 34 N81-26402

Pressure suit joint analyzer
[NASA-CASE-ARC-11314-1] c 54 N82-26987

AUTOMATION

Automated multi-level vehicle parking system
[NASA-CASE-NPO-13058-1] c 37 N77-22480

AUTOMOBILE ENGINES

Automotive gas turbine fuel control
[NASA-CASE-LEW-12785-1] c 37 N78-24545

Controller for computer control of brushless dc motors --- automobile engines
[NASA-CASE-NPO-13970-1] c 33 N81-20352

AUTOMOBILE FUELS

Hydrogen rich gas generator
[NASA-CASE-NPO-13342-2] c 44 N76-29700

AUXILIARY POWER SOURCES

Independent power generator
[NASA-CASE-LAR-11208-1] c 44 N78-32539

Electrical power generating system
[NASA-CASE-MFS-25302-1] c 33 N83-28319

AVIONICS

Aircraft control position indicator
[NASA-CASE-LAR-12984-1] c 06 N84-20522

AXES (REFERENCE LINES)

Moment of inertia test fixture Patent
[NASA-CASE-XGS-01023] c 14 N71-22992

Universal restrainer and joint Patent
[NASA-CASE-XNP-02278] c 15 N71-28951

Focal axis resolver for offset reflector antennas
[NASA-CASE-GSC-12630-1] c 33 N83-36355

AXES OF ROTATION

Three axis controller Patent
[NASA-CASE-XFR-00181] c 21 N70-33279

Proportional controller Patent
[NASA-CASE-XAC-03392] c 03 N70-41954

Trigonometric vehicle guidance assembly which aligns the three perpendicular axes of two three-axes systems Patent
[NASA-CASE-XMF-00684] c 21 N71-21688

Controllers Patent
[NASA-CASE-XMS-07487] c 15 N71-23255

Centrifugal-reciprocating compressor
[NASA-CASE-NPO-14597-2] c 37 N83-29708

Aircraft body-axis rotation measurement system
[NASA-CASE-FRC-11043-1] c 06 N83-33882

AXIAL COMPRESSION LOADS

Impact monitoring apparatus
[NASA-CASE-MSC-15626-1] c 14 N72-25411

Compression test apparatus
[NASA-CASE-MSC-18723-1] c 35 N83-21312

AXIAL FLOW TURBINES

Multistage multiple-reentry turbine Patent
[NASA-CASE-XLE-00170] c 15 N70-36412

Multistage multiple-reentry turbine Patent
[NASA-CASE-XLE-00085] c 28 N70-39895

Method and turbine for extracting kinetic energy from a stream of two-phase fluid
[NASA-CASE-NPO-14130-1] c 34 N79-20335

AXIAL LOADS

Locking device with rolling detents Patent
[NASA-CASE-XMF-01371] c 15 N70-41829

Method for measuring biaxial stress in a body subjected to stress inducing loads
[NASA-CASE-MFS-23299-1] c 39 N77-28511

AXIAL STRESS

Axially and radially controllable magnetic bearing
[NASA-CASE-GSC-11551-1] c 37 N76-18459

Method for measuring biaxial stress in a body subjected to stress inducing loads
[NASA-CASE-MFS-23299-1] c 39 N77-28511

AZIMUTH

Optical tracking mount Patent
[NASA-CASE-MFS-14017] c 14 N71-26627

Long range laser traversing system
[NASA-CASE-GSC-11262-1] c 36 N74-21091

Magnetic heading reference
[NASA-CASE-LAR-11387-2] c 04 N77-19056

A pipelined digital SAR azimuth correlator using hybrid FFT/transversal-filter
[NASA-CASE-NPO-15519-1] c 32 N82-12298

Aircraft body-axis rotation measurement system
[NASA-CASE-FRC-11043-1] c 06 N83-33882

AZINES

Azine polymers and process for preparing the same Patent
[NASA-CASE-XMF-08656] c 06 N71-11242

Ultraviolet and thermally stable polymer compositions
[NASA-CASE-ARC-10592-1] c 27 N74-21156

Ultraviolet and thermally stable polymer compositions
[NASA-CASE-ARC-10592-2] c 27 N76-32315

Catalytic trimerization of aromatic nitriles and triaryl-s-triazine ring cross-linked high temperature resistant polymers and copolymers made thereby
[NASA-CASE-LEW-12053-2] c 27 N79-28307

Perfluoroalkyl polytriazines containing pendent iododifluoromethyl groups
[NASA-CASE-ARC-11241-1] c 25 N81-14016

Process for the preparation of fluorine containing crosslinked elastomeric polytriazine and product so produced
[NASA-CASE-ARC-11248-1] c 27 N81-17259

AZO COMPOUNDS

Molding process for imidazopyrrolone polymers
[NASA-CASE-LAR-10547-1] c 31 N74-13177

B**BACK INJURIES**

Spine immobilization apparatus
[NASA-CASE-ARC-11167-1] c 52 N81-25662

BACKGROUND NOISE

Electronic background suppression method and apparatus for a field scanning sensor
[NASA-CASE-XGS-05211] c 07 N69-39980

BACKGROUND RADIATION

Method and apparatus for background signal reduction in opto-acoustic absorption measurement
[NASA-CASE-NPO-13683-1] c 35 N77-14411

BACKSCATTERING

Method and apparatus for determining electromagnetic characteristics of large surface area passive reflectors Patent
[NASA-CASE-XGS-02608] c 07 N70-41678

Mossbauer spectrometer radiation detector
[NASA-CASE-LAR-11155-1] c 35 N74-15091

BACKUPS

Flexible back-up bar Patent
[NASA-CASE-XMF-00722] c 15 N70-40204

Inherent redundancy electric heater
[NASA-CASE-MFS-21462-1] c 33 N74-14935

Improved impact tolerant material
[NASA-CASE-LAR-12887-1] c 24 N84-20649

BACKWARD WAVES

Dielectric based submillimeter backward wave oscillator circuit
[NASA-CASE-LEW-13736-1] c 33 N83-17802

Ladder supported ring bar circuit
[NASA-CASE-LEW-13570-1] c 33 N84-16452

BACTERIA

Decontamination of petroleum products Patent
[NASA-CASE-XNP-03835] c 06 N71-23499

Bacterial contamination monitor
[NASA-CASE-GSC-10879-1] c 14 N72-25413

Method of detecting and counting bacteria in body fluids
[NASA-CASE-GSC-11092-2] c 04 N73-27052

Lyophilized spore dispenser
[NASA-CASE-LAR-10544-1] c 37 N74-13178

Method of detecting and counting bacteria
[NASA-CASE-GSC-11917-2] c 51 N76-29891

Determination of antimicrobial susceptibilities on infected urines without isolation
[NASA-CASE-GSC-12046-1] c 52 N79-14750

Method and apparatus for eliminating luminol interference material
[NASA-CASE-MSC-16260-1] c 51 N80-16714

Rapid, quantitative determination of bacteria in water --- adenosine triphosphate
[NASA-CASE-GSC-12158-1] c 51 N83-27569

BACTERIOLOGY

Bacteria detection instrument and method
[NASA-CASE-GSC-11533-1] c 14 N73-13435

Application of luciferase assay for ATP to antimicrobial drug susceptibility
[NASA-CASE-GSC-12039-1] c 51 N77-22794

Automated single-slide staining device
[NASA-CASE-LAR-11649-1] c 51 N77-27677

BAFFLES

- Light radiation direction indicator with a baffle of two parallel grids
[NASA-CASE-XNP-03930] c 14 N69-24331
- Anti-glare improvement for optical imaging systems Patent
[NASA-CASE-NPO-10337] c 14 N71-15604
- Flexible ring slosh damping baffle Patent
[NASA-CASE-LAR-10317-1] c 32 N71-16103
- Buoyant anti-slosh system Patent
[NASA-CASE-XLA-04605] c 32 N71-16106
- Floating baffle to improve efficiency of liquid transfer from tanks
[NASA-CASE-KSC-10639] c 15 N73-26472
- System for the measurement of ultra-low stray light levels --- determining the adequacy of large space telescope systems
[NASA-CASE-MFS-23513-1] c 74 N79-11865
- Pressure letdown method and device for coal conversion systems
[NASA-CASE-NPO-15100-1] c 44 N84-14583

BAGS

- Relief container
[NASA-CASE-XMS-06761] c 05 N69-23182
- Gas diffusion liquid storage bag and method of use for storing blood
[NASA-CASE-NPO-13930-1] c 52 N79-14749

BAKING

- Bakeable McLeod gauge
[NASA-CASE-XGS-01293-1] c 35 N79-33450
- A method and technique for installing light-weight fragile, high-temperature fiber insulation
[NASA-CASE-MS-18934-3] c 24 N82-26387

BALANCE

- Thermo-protective device for balances Patent
[NASA-CASE-XAC-00648] c 14 N70-40400
- Device for monitoring a change in mass in varying gravimetric environments
[NASA-CASE-MFS-21556-1] c 35 N74-26945

BALANCING

- Automatic balancing device Patent
[NASA-CASE-LAR-10774] c 10 N71-13545
- Force-balanced, throttle valve Patent
[NASA-CASE-NPO-10808] c 15 N71-27432
- Lift balancing device
[NASA-CASE-LAR-10348-1] c 11 N73-12264

BALL BEARINGS

- Two component bearing Patent
[NASA-CASE-XLA-00013] c 15 N71-29136
- High speed rolling element bearing
[NASA-CASE-LEW-10856-1] c 15 N72-22490
- Low mass rolling element for bearings
[NASA-CASE-LEW-11087-1] c 15 N73-30458
- Hollow rolling element bearings
[NASA-CASE-LEW-11087-3] c 37 N74-21064
- Drilled ball bearing with a one piece anti-tipping cage assembly
[NASA-CASE-LEW-11925-1] c 37 N75-31446
- Spherical bearing --- to reduce vibration effects
[NASA-CASE-MFS-23447-1] c 37 N79-11404
- Apparatus and method for inspecting a bearing ball --- eddy current inspection technique
[NASA-CASE-MFS-25833-1] c 35 N83-21316

BALLAST (MASS)

- Life raft stabilizer
[NASA-CASE-MS-12393-1] c 02 N73-26006

BALLASTS (IMPEDANCES)

- Apparatus for ballasting high frequency transistors
[NASA-CASE-XGS-05003] c 09 N69-24318
- Direct current ballast circuit for metal halide lamp
[NASA-CASE-MS-18407-1] c 33 N82-24427

BALLISTICS

- Fiber modified polyurethane foam for ballistic protection
[NASA-CASE-ARC-10714-1] c 27 N76-15310

BALLOON SOUNDING

- Apparatus for controlling the temperature of balloon-borne equipment
[NASA-CASE-GSC-11620-1] c 34 N74-23039

BALLOONS

- Hot air balloon deceleration and recovery system Patent
[NASA-CASE-XLA-06824-2] c 02 N71-11037
- Inflation system for balloon type satellites Patent
[NASA-CASE-XGS-03351] c 31 N71-16081
- System for stabilizing torque between a balloon and gondola
[NASA-CASE-GSC-11077-1] c 02 N73-13008

BALLS

- Two-axis controller Patent
[NASA-CASE-XFR-04104] c 03 N70-42073
- Quartz ball valve
[NASA-CASE-NPO-14473-1] c 37 N80-23654

BANDPASS FILTERS

- Helical coaxial resonator RF filter
[NASA-CASE-XGS-02816] c 07 N69-24323

- Compensating bandwidth switching transients in an amplifier circuit Patent
[NASA-CASE-XNP-01107] c 10 N71-28859

- Signal-to-noise ratio determination circuit
[NASA-CASE-GSC-11239-1] c 10 N73-25241
- High-Q bandpass resonators utilizing bandstop resonator pairs
[NASA-CASE-GSC-10990-1] c 09 N73-26195
- Dichroic plate --- as bandpass filters
[NASA-CASE-NPO-13506-1] c 35 N76-15435
- Notch filter
[NASA-CASE-MFS-23303-1] c 32 N77-18307
- Adaptive polarization separation
[NASA-CASE-LAR-12196-1] c 33 N81-26358
- Smoothing filter for digital to analog conversion
[NASA-CASE-FRC-11025-1] c 33 N82-24417
- Reactanceless bandpass amplifier
[NASA-CASE-GSC-12788-1] c 33 N83-12333
- Tuned analog network
[NASA-CASE-GSC-12650-1] c 33 N84-14421

BANDWIDTH

- Narrow bandwidth video Patent
[NASA-CASE-XMS-06740-1] c 07 N71-26579
- Self-tuning bandpass filter
[NASA-CASE-ARC-10264-1] c 09 N73-20231
- Turnstile and flared cone UHF antenna
[NASA-CASE-LAR-10970-1] c 33 N76-14372
- Independent gain and bandwidth control of a traveling wave maser
[NASA-CASE-NPO-13801-1] c 36 N78-18410
- Inductorless narrow-band filter/amplifier
[NASA-CASE-GSC-12410-1] c 33 N79-24260
- Dual band combiner for horn antenna
[NASA-CASE-NPO-14519-1] c 32 N80-23524

BARIUM

- Barium release system
[NASA-CASE-LAR-10670-1] c 06 N73-30097

BARIUM COMPOUNDS

- Ion thruster cathode
[NASA-CASE-XLE-07087] c 06 N69-39889

BARIUM FLUORIDES

- Method of making self lubricating fluoride-metal composite materials Patent
[NASA-CASE-XLE-08511-2] c 18 N71-16105

BARIUM ION CLOUDS

- Rocket having barium release system to create ion clouds in the upper atmosphere
[NASA-CASE-LAR-10670-2] c 15 N74-27360

BARIUM TITANATES

- Semiconductor-ferroelectric memory device
[NASA-CASE-ERC-10307] c 08 N72-21198

BARRIER LAYERS

- Schottky barrier solar cell
[NASA-CASE-NPO-13689-2] c 44 N81-29525
- Submillimeter wave Schottky barrier diode with low series resistance and low noise
[NASA-CASE-NPO-15935-1] c 33 N83-12334

BARRIERS

- Short range laser obstacle detector --- for surface vehicles using laser diode array
[NASA-CASE-NPO-11856-1] c 36 N74-15145

BARS

- Satellite retrieval system
[NASA-CASE-MFS-25403-1] c 18 N83-29303

BASES (CHEMICAL)

- Thermal control coating Patent
[NASA-CASE-XLA-01995] c 18 N71-23047

BATTERY CHARGERS

- Method and apparatus for battery charge control Patent
[NASA-CASE-XGS-05432] c 03 N71-19438
- Electrochemical coulometer and method of forming same Patent
[NASA-CASE-XGS-05434] c 03 N71-20491
- Coulometer and third electrode battery charging circuit Patent
[NASA-CASE-GSC-10487-1] c 03 N71-24719

- Method and apparatus for conditioning of nickel-cadmium batteries
[NASA-CASE-MFS-23270-1] c 44 N78-25531

BAYARD-ALPERT IONIZATION GAGES

- Ionization vacuum gauge with all but the end of the ion collector shielded Patent
[NASA-CASE-XLA-07424] c 14 N71-18482

BEADS

- Rotary bead dropper and selector for testing micrometeorite detectors Patent
[NASA-CASE-XGS-03304] c 09 N71-22988

BEAM LEADS

- Integrated circuit package with lead structure and method of preparing the same
[NASA-CASE-MFS-21374-1] c 33 N74-12951

BEAM SPLITTERS

- Optical range finder having nonoverlapping complete images
[NASA-CASE-MS-12105-1] c 14 N72-21409

- Laser extensometer
[NASA-CASE-MFS-19259-1] c 36 N78-14380
- Over-under double-pass interferometer
[NASA-CASE-NPO-13999-1] c 35 N78-18395
- Method and apparatus for splitting a beam of energy --- optical communication
[NASA-CASE-GSC-12083-1] c 73 N78-32848
- Interferometer
[NASA-CASE-NPO-14502-1] c 74 N81-17888
- Collimated beam manifold with the number of output beams variable at a given output angle
[NASA-CASE-MFS-25312-1] c 74 N83-17305
- Dual-beam skin friction interferometer
[NASA-CASE-ARC-11354-1] c 74 N83-21949
- High speed multi focal plane optical system
[NASA-CASE-GSC-12683-1] c 74 N83-36898

BEAM SWITCHING

- Electronic beam switching commutator Patent
[NASA-CASE-XGS-01451] c 09 N71-10677
- Antenna array at focal plane of reflector with coupling network for beam switching Patent
[NASA-CASE-GSC-10220-1] c 07 N71-27233
- Dish antenna having switchable beamwidth --- with truncated concave ellipsoid subreflector
[NASA-CASE-GSC-11760-1] c 33 N75-19516
- Single frequency, two feed dish antenna having switchable beamwidth
[NASA-CASE-GSC-11968-1] c 32 N76-15329
- Switchable beamwidth monopulse method and system
[NASA-CASE-GSC-11924-1] c 33 N76-27472

BEAM WAVEGUIDES

- Laser machining apparatus Patent
[NASA-CASE-HQN-10541-2] c 15 N71-27135
- Optical frequency waveguide and transmission system Patent
[NASA-CASE-HQN-10541-4] c 16 N71-27183
- Method and apparatus for aligning a laser beam projector Patent
[NASA-CASE-NPO-11087] c 23 N71-29125
- Microwave power transmission beam safety system
[NASA-CASE-NPO-14224-1] c 33 N80-18287
- Multiprism collimator
[NASA-CASE-GSC-12608-1] c 74 N83-10900

BEAMS (RADIATION)

- Method and means for recording and reconstructing holograms without use of a reference beam Patent
[NASA-CASE-ERC-10020] c 16 N71-26154
- Optical frequency waveguide and transmission system
[NASA-CASE-HQN-10541-3] c 23 N72-23695
- Method and apparatus for Doppler frequency modulation of radiation
[NASA-CASE-NPO-14524-1] c 32 N80-24510
- Scannable beam forming interferometer antenna array system
[NASA-CASE-GSC-12365-1] c 32 N80-28578
- Off-axis coherently pumped laser
[NASA-CASE-GSC-12592-1] c 36 N81-12407
- Method for shaping and aiming narrow beams --- sonar mapping and target identification
[NASA-CASE-NPO-14632-1] c 32 N82-18443
- Constant magnification optical tracking system
[NASA-CASE-NPO-14813-1] c 74 N82-24072
- Sidelooking laser altimeter for a flight simulator
[NASA-CASE-ARC-11312-1] c 36 N83-34304

BEAMS (SUPPORTS)

- Foldable beam
[NASA-CASE-LAR-12077-1] c 31 N81-25259
- Articulated joint for deployable structures
[NASA-CASE-NPO-16038-1] c 37 N83-20157
- Beam connector apparatus and assembly
[NASA-CASE-MFS-25134-1] c 31 N83-31895
- Sequentially deployable maneuverable tetrahedral beam
[NASA-CASE-LAR-13098-1] c 31 N83-35178

BEARING (DIRECTION)

- Light radiation direction indicator with a baffle of two parallel grids
[NASA-CASE-XNP-03930] c 14 N69-24331
- Radiation direction detector including means for compensating for photocell aging Patent
[NASA-CASE-XLA-00183] c 14 N70-40239
- Interferometer direction sensor Patent
[NASA-CASE-NPO-10320] c 14 N71-17655
- Omnidirectional acceleration device Patent
[NASA-CASE-HQN-10780] c 14 N71-30265
- Magnetic heading reference
[NASA-CASE-LAR-11387-2] c 04 N77-19056
- Direction sensitive laser velocimeter --- determining the direction of particles using a helium-neon laser
[NASA-CASE-LAR-12177-1] c 36 N81-24422
- System for providing an integrated display of instantaneous information relative to aircraft attitude, heading, altitude, and horizontal situation
[NASA-CASE-FRC-11005-1] c 06 N82-16075

BEARINGS

- Alloys for bearings Patent
[NASA-CASE-XLE-05033] c 15 N71-23810
- Bearing and gimbal lock mechanism and spiral flex lead module Patent
[NASA-CASE-GSC-10556-1] c 31 N71-26537
- Device for measuring bearing preload
[NASA-CASE-MFS-20434] c 11 N72-25288
- Magnetic bearing --- for supplying magnetic fluxes
[NASA-CASE-GSC-11079-1] c 37 N75-18574
- Magnetic bearing system
[NASA-CASE-GSC-11978-1] c 37 N77-17464
- Hydrostatic bearing support
[NASA-CASE-LEW-11158-1] c 37 N77-28486
- Deformable bearing seat
[NASA-CASE-LEW-12527-1] c 37 N77-32500
- Bearing seat usable in a gas turbine engine
[NASA-CASE-LEW-12477-1] c 37 N77-32501
- Method of making bearing material
[NASA-CASE-LEW-11930-3] c 24 N80-33482
- Linear magnetic bearings --- active magnetic suspension of armatures
[NASA-CASE-GSC-12582-1] c 37 N81-16469
- Suspension system for a wheel rolling on a flat track --- bearings for directional antennas
[NASA-CASE-NPO-14395-1] c 37 N82-21587
- Linear magnetic bearings
[NASA-CASE-GSC-12582-2] c 37 N83-13460
- Variable force, eddy-current or magnetic damper
[NASA-CASE-LEW-13717-1] c 39 N83-20284
- Portable 90 deg proof loading device
[NASA-CASE-MSC-20250-1] c 37 N83-29707
- Antenna grout replacement system
[NASA-CASE-NPO-15202-1] c 27 N83-34043
- Magnetic bearing and motor
[NASA-CASE-GSC-12726-1] c 37 N83-34323
- Unidirectional flexural pivot
[NASA-CASE-GSC-12622-1] c 37 N84-12492

BEDS (PROCESS ENGINEERING)

- Catalyst bed removing tool Patent
[NASA-CASE-XFR-00811] c 15 N70-36901

BEER LAW

- A multichannel photoionization chamber for absorption analysis Patent
[NASA-CASE-ERC-10044-1] c 14 N71-27090

BEES

- Decontamination of petroleum products Patent
[NASA-CASE-XNP-03835] c 06 N71-23499

BELLOWS

- Balanced bellows spirometer
[NASA-CASE-XAR-01547] c 05 N69-21473
- Printed circuit board with bellows rivet connection Patent
[NASA-CASE-XNP-05082] c 15 N70-41960
- Spherical shield Patent
[NASA-CASE-XNP-01855] c 15 N71-28937
- Internally supported flexible duct joint --- device for conducting fluids in high pressure systems
[NASA-CASE-MFS-19193-1] c 37 N75-19686

BELTS

- Apparatus for forming drive belts
[NASA-CASE-NPO-13205-1] c 31 N74-32917

BENDING

- Radio frequency shielded enclosure Patent
[NASA-CASE-XMF-09422] c 07 N71-19436
- Means for suppressing or attenuating bending motion of elastic bodies Patent
[NASA-CASE-XAC-05632] c 32 N71-23971
- Technique of elbow bending small jacketed transfer lines Patent
[NASA-CASE-XNP-10475] c 15 N71-24679
- Forming tool for ribbon or wire
[NASA-CASE-XLA-05966] c 15 N72-12408

BENDING DIAGRAMS

- Electrostatic charged particle analyzer having deflection members shaped according to the periodic voltage applied thereto Patent
[NASA-CASE-XAC-05506-1] c 24 N71-16095

BENDING FATIGUE

- Apparatus for positioning and loading a test specimen Patent
[NASA-CASE-XLE-01300] c 15 N70-41993
- Low temperature flexure fatigue cryostat Patent
[NASA-CASE-XMF-02964] c 14 N71-17659

BENDING MOMENTS

- Missile launch release system Patent
[NASA-CASE-XMF-03198] c 30 N70-40353

BENDING VIBRATION

- Viscous pendulum damper Patent
[NASA-CASE-LAR-10274-1] c 14 N71-17626

BENZENE

- Intumescent composition, foamed product prepared therewith, and process for making same
[NASA-CASE-ARC-10304-1] c 18 N73-26572

Cerenkov radiator material and charged particle detection process

- [NASA-CASE-GSC-12805-1] c 72 N83-18423
- The 1 - (dialkoxyposphoryl)methyl -2,4- and -2,6-dinitro- and diamino benzenes and their derivatives
[NASA-CASE-ARC-11425-1] c 23 N83-28076
- Polymers of phosphonylmethyl-2,4- and -2,6-diamino benzenes and the like
[NASA-CASE-ARC-11506-1] c 27 N84-12313
- Fire resistant polymers based on 1-((dialkoxyposphoryl)methyl)-2,4- and -2,6-diaminobenzenes
[NASA-CASE-ARC-11512-1] c 27 N84-20702

BERYLLIUM ALLOYS

- Corrosion resistant beryllium Patent
[NASA-CASE-LEW-10327] c 17 N71-33408
- Thin film strain transducer --- for strain monitoring of high altitude balloons
[NASA-CASE-WLP-10055-1] c 35 N82-26632

BERYLLIUM HYDRIDES

- Inhibited solid propellant composition containing beryllium hydride
[NASA-CASE-NPO-10866-1] c 28 N79-14228

BERYLLIUM OXIDES

- High temperature beryllium oxide capacitor
[NASA-CASE-LEW-11938-1] c 33 N76-15373
- High modulus invert analog glass compositions containing beryllia
[NASA-CASE-HQN-10931-2] c 27 N82-29452
- High modulus rare earth and beryllium containing silicate glass compositions --- for glass reinforcing fibers
[NASA-CASE-HQN-10595-1] c 27 N82-29455

BIAS

- Electrical self-aligning connector
[NASA-CASE-MFS-25211-1] c 33 N80-32651

BIMETALS

- Nonmagnetic thermal motor for a magnetometer
[NASA-CASE-XAR-03786] c 09 N69-21313
- Thermostatic actuator
[NASA-CASE-NPO-10637] c 15 N72-12409
- Thermal motor
[NASA-CASE-NPO-11283] c 09 N72-25260
- Thermal compensating structural member
[NASA-CASE-MFS-20433] c 15 N72-28496
- Bimetallic fluid displacement apparatus --- for stirring and heating stored gases and liquids
[NASA-CASE-ARC-10441-1] c 35 N74-15126
- Thermocouples of tantalum and rhenium alloys for more stable vacuum-high temperature performance
[NASA-CASE-LEW-12050-1] c 35 N77-32454

BINARY CODES

- Time division radio relay synchronizing system using different sync code words for in sync and out of sync conditions Patent
[NASA-CASE-GSC-10373-1] c 07 N71-19773
- Parallel generation of the check bits of a PN sequence Patent
[NASA-CASE-XNP-04623] c 10 N71-26103
- Encoder/decoder system for a rapidly synchronizable binary code Patent
[NASA-CASE-NPO-10342] c 10 N71-33407
- Binary coded sequential acquisition ranging system
[NASA-CASE-NPO-11194] c 08 N72-25209
- Binary concatenated coding system
[NASA-CASE-MSC-14082-1] c 60 N76-23850
- Multiple rate digital command detection system with range clean-up capability
[NASA-CASE-NPO-13753-1] c 32 N77-20289
- Pseudo noise code and data transmission method and apparatus
[NASA-CASE-GSC-12017-1] c 32 N77-30308
- Binary to binary coded decimal converter
[NASA-CASE-GSC-12044-1] c 60 N78-17691
- Apparatus and method for stabilized phase detection for binary signal tracking loops
[NASA-CASE-MSC-16461-1] c 33 N79-11313

BINARY DATA

- Binary magnetic memory device Patent
[NASA-CASE-XGS-00174] c 08 N70-34743
- Ripple add and ripple subtract binary counters Patent
[NASA-CASE-XGS-04766] c 08 N71-18602
- Computing apparatus Patent
[NASA-CASE-XGS-04765] c 08 N71-18693
- Digital synchronizer Patent
[NASA-CASE-NPO-10851] c 07 N71-24613
- Differential phase shift keyed communication system
[NASA-CASE-MSC-14065-1] c 32 N74-26654
- Modulator for tone and binary signals --- phase of modulation of tone and binary signals on carrier waves in communication systems
[NASA-CASE-GSC-11743-1] c 32 N75-24981
- Binary to binary coded decimal converter
[NASA-CASE-GSC-12044-1] c 60 N78-17691

BINARY DIGITS

- Logarithmic converter Patent
[NASA-CASE-XLA-00471] c 08 N70-34778

- Full binary adder Patent
[NASA-CASE-XGS-00689] c 08 N70-34787
- Binary number sorter Patent
[NASA-CASE-NPO-10112] c 08 N71-12502
- Binary sequence detector Patent
[NASA-CASE-XNP-05415] c 08 N71-12505
- Display for binary characters Patent
[NASA-CASE-XGS-04987] c 08 N71-20571
- Comparator for the comparison of two binary numbers Patent
[NASA-CASE-XNP-04819] c 08 N71-23295
- High speed direct binary to binary coded decimal converter and scaler
[NASA-CASE-KSC-10595] c 08 N73-12176
- A m-ary linear feedback shift register with binary logic
[NASA-CASE-XNP-11868] c 10 N73-20254
- Binary concatenated coding system
[NASA-CASE-MSC-14082-1] c 60 N76-23850

BINARY FLUIDS

- Flow measuring apparatus
[NASA-CASE-LEW-12078-1] c 35 N75-30503

BINARY TO DECIMAL CONVERTERS

- Binary to binary-coded-decimal converter Patent
[NASA-CASE-XNP-00432] c 08 N70-35423
- High speed binary to decimal conversion system Patent
[NASA-CASE-XGS-01230] c 08 N71-19544
- BCD to decimal decoder Patent
[NASA-CASE-XKS-06167] c 08 N71-24890
- High speed direct binary-to-binary coded decimal converter
[NASA-CASE-KSC-10326] c 08 N72-21197
- Binary to binary coded decimal converter
[NASA-CASE-GSC-12044-1] c 60 N78-17691

BINDERS (MATERIALS)

- Bonded solid lubricant coating Patent
[NASA-CASE-XMS-00259] c 18 N70-36400
- Brazing alloy binder
[NASA-CASE-XMF-05868] c 26 N75-27125
- Alkali-metal silicate binders and methods of manufacture
[NASA-CASE-GSC-12303-1] c 24 N79-31347

BINOCLULARS

- Binocular device for displaying numerical information in field of view
[NASA-CASE-LAR-11782-1] c 74 N77-20882

BIOASSAY

- Apparatus for producing three-dimensional recordings of fluorescence spectra Patent
[NASA-CASE-XGS-01231] c 14 N70-41676
- Flavin coenzyme assay
[NASA-CASE-GSC-10565-1] c 06 N72-25149
- Method of detecting and counting bacteria in body fluids
[NASA-CASE-GSC-11092-2] c 04 N73-27052
- Amino acid analysis
[NASA-CASE-NPO-12130-1] c 25 N75-14844
- Servo-controlled intravital microscope system
[NASA-CASE-NPO-13214-1] c 35 N75-25123
- Method of detecting and counting bacteria
[NASA-CASE-GSC-11917-2] c 51 N76-29891
- Automated clinical system for chromosome analysis
[NASA-CASE-NPO-13913-1] c 52 N79-12694
- Determination of antimicrobial susceptibilities on infected urines without isolation
[NASA-CASE-GSC-12046-1] c 52 N79-14750
- Method and apparatus for eliminating luminol interference material
[NASA-CASE-MSC-16260-1] c 51 N80-16714

BIODEGRADATION

- Method for treating wastewater using microorganisms and vascular aquatic plants
[NASA-CASE-NSTL-10] c 45 N84-12654

BIODYNAMICS

- Prosthesis coupling
[NASA-CASE-KSC-11069-1] c 52 N79-26772
- Kinesimetric method and apparatus
[NASA-CASE-MSC-18929-1] c 39 N83-20280

BIOELECTRIC POTENTIAL

- Electrode for biological recording
[NASA-CASE-XMS-02872] c 05 N69-21925
- Method of making a perspiration resistant biopotential electrode
[NASA-CASE-MSC-90153-2] c 05 N72-25120
- Process for control of cell division
[NASA-CASE-LAR-10773-3] c 51 N77-25769

BIOELECTRICITY

- Plated electrodes Patent
[NASA-CASE-XMS-04213-1] c 09 N71-26002
- Indirect microbial detection
[NASA-CASE-LAR-12520-1] c 51 N81-28698

BIOENGINEERING

- Bio-isolated dc operational amplifier --- for bioelectric measurements
[NASA-CASE-ARC-10596-1] c 33 N74-21851

Actuator device for artificial leg
[NASA-CASE-MFS-23225-1] c 52 N77-14735
Percutaneous connector device
[NASA-CASE-KSC-10849-1] c 52 N77-14738
Prosthesis coupling
[NASA-CASE-KSC-11069-1] c 52 N79-26772
Subcutaneous electrode structure
[NASA-CASE-ARC-11117-1] c 52 N81-14612
Urine collection device
[NASA-CASE-MSC-16433-1] c 52 N81-24711
Low X-ray absorption aneurism clips
[NASA-CASE-LAR-12650-1] c 52 N81-29768
Bio-medical flow sensor --- intravenous procedures
[NASA-CASE-MSC-18761-1] c 52 N83-27577
Prosthetic occlusive device for an internal passageway
[NASA-CASE-MFS-25740-1] c 52 N84-11744

BIOINSTRUMENTATION

Temperature compensated solid state differential amplifier Patent
[NASA-CASE-XAC-00435] c 09 N70-35440
Electrode construction Patent
[NASA-CASE-ARC-10043-1] c 05 N71-11193
Pressed disc type sensing electrodes with ion-screening means Patent
[NASA-CASE-XMS-04212-1] c 05 N71-12346
EEG sleep analyzer and method of operation Patent
[NASA-CASE-MSC-13282-1] c 05 N71-24729
Plated electrodes Patent
[NASA-CASE-XMS-04213-1] c 09 N71-26002
Ultrasonic biomedical measuring and recording apparatus --- for recording motion of internal organs such as heart valves
[NASA-CASE-ARC-10597-1] c 52 N74-20726
Subminiature insertable force transducer --- including a strain gage to measure forces in muscles
[NASA-CASE-NPO-13423-1] c 33 N75-31329
Catheter tip force transducer for cardiovascular research
[NASA-CASE-NPO-13643-1] c 52 N76-29896
Biomedical ultrasonoscope
[NASA-CASE-ARC-10994-1] c 52 N76-33835
Thermistor holder for skin temperature measurements
[NASA-CASE-ARC-10855-1] c 52 N77-10780
Magnetic electrical connectors for biomedical percutaneous implants
[NASA-CASE-KSC-11030-1] c 52 N77-25772
Corneal seal device
[NASA-CASE-LEW-12258-1] c 52 N77-28716
Snap-in compressible biomedical electrode
[NASA-CASE-MSC-14823-1] c 52 N77-28717
Miniature implantable ultrasonic echosonometer
[NASA-CASE-ARC-11035-1] c 52 N79-18580
Induction powered biological radiosonde
[NASA-CASE-ARC-11120-1] c 52 N80-18691
Pulse transducer with artifact signal attenuator --- heart rate sensors
[NASA-CASE-FRC-11012-1] c 52 N80-23969
Method and automated apparatus for detecting coliform organisms
[NASA-CASE-MSC-16777-1] c 51 N80-27067
Simultaneous muscle force and displacement transducer
[NASA-CASE-NPO-14212-1] c 52 N80-27072
Non-invasive method and apparatus for measuring pressure within a pliable vessel
[NASA-CASE-ARC-11264-1] c 52 N81-33804
Logic-controlled occlusive cuff system
[NASA-CASE-MSC-14836-1] c 52 N82-11770
Implantable electrical device
[NASA-CASE-GSC-12560-1] c 52 N82-29863
Dual physiological rate measurement instrument
[NASA-CASE-MSC-20078-1] c 52 N82-32971

BIOLUMINESCENCE

Light detection instrument Patent
[NASA-CASE-XGS-05534] c 23 N71-16355
Lyophilized reaction mixtures Patent
[NASA-CASE-XGS-05532] c 06 N71-17705
Application of luciferase assay for ATP to antimicrobial drug susceptibility
[NASA-CASE-GSC-12039-1] c 51 N77-22794
Rapid, quantitative determination of bacteria in water --- adenosine triphosphate
[NASA-CASE-GSC-12158-1] c 51 N83-27569

BIOMASS ENERGY PRODUCTION

Fluidized bed liquefaction of biomass
[NASA-CASE-NPO-15907-1] c 25 N83-36121
Fluidized bed gasification of biomass to methane
[NASA-CASE-NPO-15903-1] c 44 N84-12635

BIOMEDICAL DATA

Biomedical radiation detecting probe Patent
[NASA-CASE-XMS-01177] c 05 N71-19440
Biomedical ultrasonoscope
[NASA-CASE-ARC-10994-2] c 52 N79-26771

BIOMETRICS

Pressed disc type sensing electrodes with ion-screening means Patent
[NASA-CASE-XMS-04212-1] c 05 N71-12346
Compressible biomedical electrode
[NASA-CASE-MSC-13648] c 05 N72-27103
Ultrasonic biomedical measuring and recording apparatus --- for recording motion of internal organs such as heart valves
[NASA-CASE-ARC-10597-1] c 52 N74-20726
Arterial pulse wave pressure transducer
[NASA-CASE-GSC-11531-1] c 52 N74-27566
Biomedical ultrasonoscope
[NASA-CASE-ARC-10994-1] c 52 N76-33835
Miniature implantable ultrasonic echosonometer
[NASA-CASE-ARC-11035-1] c 52 N79-18580
Biomedical ultrasonoscope
[NASA-CASE-ARC-10994-2] c 52 N79-26771
Simultaneous muscle force and displacement transducer
[NASA-CASE-NPO-14212-1] c 52 N80-27072
Multifunctional transducer
[NASA-CASE-NPO-14329-1] c 52 N81-20703
Sweat collection capsule
[NASA-CASE-ARC-11031-1] c 52 N81-29763
Non-invasive method and apparatus for measuring pressure within a pliable vessel
[NASA-CASE-ARC-11264-1] c 52 N81-33804

BIOTELEMETRY

Telemeter adaptable for implanting in an animal Patent
[NASA-CASE-XAC-05706] c 05 N71-12342
Miniature multichannel biotelemetry system
[NASA-CASE-NPO-13065-1] c 52 N74-26625
Medical subject monitoring systems --- multichannel monitoring systems
[NASA-CASE-MSC-14180-1] c 52 N76-14757
Accelerometer telemetry system
[NASA-CASE-ARC-10849-1] c 17 N76-29347
Miniature ingestible telemeter devices to measure deep-body temperature
[NASA-CASE-ARC-10583-1] c 52 N76-29894

BIPOLAR TRANSISTORS

Voltage regulator for battery power source --- using a bipolar transistor
[NASA-CASE-FRC-10116-1] c 33 N79-23345
Power converter
[NASA-CASE-FRC-11014-1] c 33 N82-18494
Hybrid power semiconductor switch
[NASA-CASE-LEW-13922-1] c 33 N84-11389

BIREFRINGENCE

Polarimeter for transient measurement Patent
[NASA-CASE-XNP-08883] c 23 N71-16101

BISMUTH

Manganese bismuth films with narrow transfer characteristics for Curie-point switching
[NASA-CASE-NPO-11336-1] c 76 N79-16678

BISMUTH COMPOUNDS

Hall effect magnetometer
[NASA-CASE-LEW-11632-2] c 35 N75-13213

BISTABLE CIRCUITS

AC logic flip-flop circuits Patent
[NASA-CASE-XGS-00823] c 10 N71-15910

BIT SYNCHRONIZATION

Telemetry word forming unit
[NASA-CASE-XNP-09225] c 09 N69-24333
Transition tracking bit synchronization system
[NASA-CASE-NPO-10844] c 07 N72-20140
Apparatus for deriving synchronizing pulses from pulses in a single channel PCM communications system
[NASA-CASE-NPO-11302-1] c 07 N73-13149
Method and apparatus for a single channel digital communications system --- synchronization of received PCM signal by digital correlation with reference signal
[NASA-CASE-NPO-11302-2] c 32 N74-10132

BITERNARY CODE

Minimal logic block encoder Patent
[NASA-CASE-NPO-10595] c 10 N71-25917

BITS

Parallel generation of the check bits of a PN sequence Patent
[NASA-CASE-XNP-04623] c 10 N71-26103
MOD 2 sequential function generator for multibit binary sequence
[NASA-CASE-NPO-10636] c 08 N72-25210
Bit error rate measurement above and below bit rate tracking threshold
[NASA-CASE-MSC-12743-1] c 32 N79-10263

BLACK BODY RADIATION

Black-body furnace Patent
[NASA-CASE-XLE-01399] c 33 N71-15625
Cavity radiometer Patent
[NASA-CASE-XNP-08961] c 14 N71-24809
Conically shaped cavity radiometer with a dual purpose cone winding Patent
[NASA-CASE-XNP-09701] c 14 N71-26475

Black body cavity radiometer Patent
[NASA-CASE-NPO-10810] c 14 N71-27323

BLADDER

Prosthetic urinary sphincter
[NASA-CASE-MFS-23717-1] c 52 N81-25660

BLADE TIPS

Modification and improvements to cooled blades Patent
[NASA-CASE-XLE-00092] c 15 N70-33264
Fully plasma-sprayed compliant backed ceramic turbine seal
[NASA-CASE-LEW-13268-3] c 37 N83-28450

BLADES

Impact absorbing blade mounts for variable pitch blades
[NASA-CASE-LEW-12313-1] c 37 N78-10468

BLADES (CUTTERS)

Line cutter Patent
[NASA-CASE-XMS-04072] c 15 N70-42017
Tissue macerating instrument
[NASA-CASE-LEW-12668-1] c 52 N78-14773
Crystal cleaving machine
[NASA-CASE-GSC-12584-1] c 37 N82-32730

BLAST LOADS

Linear explosive comparison
[NASA-CASE-LAR-10800-1] c 33 N72-27959

BLOCKS

Rotary target V-block --- aligning wind tunnel apparatus for optical measurement
[NASA-CASE-LAR-12007-2] c 74 N79-25876

BLOOD

Reduction of blood serum cholesterol
[NASA-CASE-NPO-12119-1] c 52 N75-15270
Gas diffusion liquid storage bag and method of use for storing blood
[NASA-CASE-NPO-13930-1] c 52 N79-14749
Dialysis system --- using ion exchange resin membranes permeable to urea molecules
[NASA-CASE-NPO-14101-1] c 52 N80-14687

BLOOD FLOW

Logic-controlled occlusive cuff system
[NASA-CASE-MSC-14836-1] c 52 N82-11770

BLOOD PRESSURE

Blood pressure measuring system for separating and separately recording dc signal and an ac signal Patent
[NASA-CASE-XMS-06061] c 05 N71-23317
Apparatus and method for processing Korotkov sounds --- for blood pressure measurement
[NASA-CASE-MSC-13999-1] c 52 N74-26626
Arterial pulse wave pressure transducer
[NASA-CASE-GSC-11531-1] c 52 N74-27566
Circuit for detecting initial systole and diastolic notch --- for monitoring arterial pressure
[NASA-CASE-LEW-11581-1] c 54 N75-13531
Non-invasive method and apparatus for measuring pressure within a pliable vessel
[NASA-CASE-ARC-11264-1] c 52 N81-33804

BLOOD VESSELS

Non-invasive method and apparatus for measuring pressure within a pliable vessel
[NASA-CASE-ARC-11264-1] c 52 N81-33804
Non-invasive method and apparatus for measuring pressure within a pliable vessel
[NASA-CASE-ARC-11264-2] c 52 N83-29991

BLUFF BODIES

Annular supersonic decelerator or drogue Patent
[NASA-CASE-XLE-00222] c 02 N70-37939

BLUNT BODIES

Flow field simulation Patent
[NASA-CASE-LAR-11138] c 12 N71-20436

BODIES OF REVOLUTION

Conforming polisher for aspheric surface of revolution Patent
[NASA-CASE-XGS-02884] c 15 N71-22705
Moment of inertia test fixture Patent
[NASA-CASE-XGS-01023] c 14 N71-22992

BODY FLUIDS

Programmable physiological infusion
[NASA-CASE-ARC-10447-1] c 52 N74-22771
Method of detecting and counting bacteria
[NASA-CASE-GSC-11917-2] c 51 N76-29891
Micro-fluid exchange coupling apparatus
[NASA-CASE-ARC-11114-1] c 51 N81-14605

BODY KINEMATICS

Space suit having improved waist and torso movement
[NASA-CASE-ARC-10275-1] c 05 N72-22092
Controller arm for a remotely related slave arm
[NASA-CASE-ARC-11052-1] c 37 N79-28551
Kinesimetric method and apparatus
[NASA-CASE-MSC-18929-1] c 39 N83-20280

BODY MEASUREMENT (BIOLOGY)

Biomedical ultrasonoscope
[NASA-CASE-ARC-10994-1] c 52 N76-33835
Miniature implantable ultrasonic echosonometer
[NASA-CASE-ARC-11035-1] c 52 N79-18580

- Kinesimetric method and apparatus
[NASA-CASE-MSC-18929-1] c 39 N83-20280
- Apparatus for determining changes in limb volume
[NASA-CASE-MSC-18759-1] c 52 N83-27578
- BODY TEMPERATURE**
- Garments for controlling the temperature of the body
Patent
[NASA-CASE-XMS-10269] c 05 N71-24147
- Miniature ingestible telemeter devices to measure deep-body temperature
[NASA-CASE-ARC-10583-1] c 52 N76-29894
- BODY VOLUME (BIOLOGY)**
- Whole body measurement systems --- for weightlessness simulation
[NASA-CASE-MSC-13972-1] c 52 N74-10975
- Apparatus for determining changes in limb volume
[NASA-CASE-MSC-18759-1] c 52 N83-27578
- BODY-WING CONFIGURATIONS**
- Free wing assembly for an aircraft
[NASA-CASE-FRC-10092-1] c 05 N79-12061
- Means for controlling aerodynamically induced twist
[NASA-CASE-LAR-12175-1] c 05 N82-28279
- BOILERS**
- Boiler for generating high quality vapor Patent
[NASA-CASE-XLE-00785] c 33 N71-16104
- Shell side liquid metal boiler
[NASA-CASE-NPO-10831] c 33 N72-20915
- Carbon granule probe microphone for leak detection
[NASA-CASE-NPO-16027-1] c 33 N83-29595
- BOLOMETERS**
- Insertion loss measuring apparatus having transformer means connected across a pair of bolometers Patent
[NASA-CASE-XNP-01193] c 10 N71-16057
- Thin film capacitive bolometer and temperature sensor Patent
[NASA-CASE-NPO-10607] c 09 N71-27232
- Wedge immersed thermistor bolometers
[NASA-CASE-XGS-01245-1] c 35 N79-33449
- BOLTS**
- Gas actuated bolt disconnect Patent
[NASA-CASE-XLA-00326] c 03 N70-34667
- Despin weight release Patent
[NASA-CASE-XLA-00679] c 15 N70-38601
- Inspection gage for boss Patent
[NASA-CASE-XMF-04966] c 14 N71-17658
- Split nut separation system Patent
[NASA-CASE-XNP-06914] c 15 N71-21489
- Fastener stretcher
[NASA-CASE-GSC-11149-1] c 15 N73-30457
- Securable bearing stress-strain indicator --- for monitoring torque on bolts incorporated in pressure vessels
[NASA-CASE-LAR-12774-1] c 35 N83-29654
- Optimized bolted joint
[NASA-CASE-LAR-13250-1] c 37 N84-20859
- BONDING**
- Bonding graphite with fused silver chloride
[NASA-CASE-XGS-00963] c 15 N69-39735
- Bonded joint and method --- for reducing peak shear stress in adhesive bonds
[NASA-CASE-LAR-10900-1] c 37 N74-23064
- Bonding method in the manufacture of continuous regression rate sensor devices
[NASA-CASE-LAR-10337-1] c 24 N75-30260
- Strain arrestor plate for fused silica tile --- bonding of thermal insulation to metallic plates or structural parts
[NASA-CASE-MSC-14182-1] c 27 N76-14264
- Bonding machine for forming a solar array strip
[NASA-CASE-NPO-13652-2] c 44 N79-24431
- Bonding of sapphire to sapphire by eutectic mixture of aluminum oxide and zirconium oxide
[NASA-CASE-GSC-11577-3] c 24 N79-25143
- Method of making a partial interlaminar separation composite system
[NASA-CASE-LAR-12065-2] c 24 N81-33235
- Attachment system for silica tiles --- thermal protection for space shuttle orbiter
[NASA-CASE-MSC-18741-1] c 27 N82-29456
- Surface texturing of fluoropolymers
[NASA-CASE-LEW-13028-1] c 27 N82-33521
- Method for making a bonded single mode fiber optic wavelength coupler
[NASA-CASE-NPO-15464-1] c 74 N83-25540
- Cryogenic insulation strength and bond tester
[NASA-CASE-MFS-25910-1] c 27 N84-11297
- Heat sealable, flame and abrasion resistant coated fabric
[NASA-CASE-MSC-18382-2] c 27 N84-14324
- BONES**
- Ultrasonic bone densitometer
[NASA-CASE-MFS-20994-1] c 35 N75-12271
- Method and system for in vivo measurement of bone tissue using a two level energy source
[NASA-CASE-MSC-14276-1] c 52 N77-14737
- Method of adhering bone to a rigid substrate using a graphite fiber reinforced bone cement
[NASA-CASE-NPO-13764-1] c 27 N78-17215
- BOOMS (EQUIPMENT)**
- Folding boom assembly Patent
[NASA-CASE-XGS-00938] c 32 N70-41367
- Collapsible antenna boom and transmission line Patent
[NASA-CASE-MFS-20068] c 07 N71-27191
- Minimech self-deploying boom mechanism
[NASA-CASE-GSC-10566-1] c 15 N72-18477
- Mechanically extendible telescoping boom
[NASA-CASE-NPO-11118] c 03 N72-25021
- Extended moment arm anti-spin device
[NASA-CASE-LAR-12979-1] c 02 N83-29173
- BOOSTER RECOVERY**
- Recoverable rocket vehicle Patent
[NASA-CASE-XMF-00389] c 31 N70-34176
- Recoverable single stage spacecraft booster Patent
[NASA-CASE-XMF-01973] c 31 N70-41588
- Orbiter/launch system
[NASA-CASE-LAR-12250-1] c 14 N81-26161
- BOOSTER ROCKET ENGINES**
- Segmented back-up bar Patent
[NASA-CASE-XMF-00640] c 15 N70-39924
- Recoverable single stage spacecraft booster Patent
[NASA-CASE-XMF-01973] c 31 N70-41588
- Space Shuttle with improved external propellant tank
[NASA-CASE-MFS-25853] c 16 N83-13149
- BOOTS (FOOTWEAR)**
- Walking boot assembly
[NASA-CASE-ARC-11101-1] c 54 N78-17675
- BORING MACHINES**
- Boring bar drive mechanism Patent
[NASA-CASE-XLA-03661] c 15 N71-33518
- Borehole geological assessment
[NASA-CASE-NPO-14231-1] c 46 N80-10709
- BORON**
- Radiation hardening of MOS devices by boron --- for stabilizing gate threshold potential of field effect device
[NASA-CASE-GSC-11425-1] c 76 N74-20329
- BORON CARBIDES**
- Catalyst for growth of boron carbide single crystal whiskers
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[NASA-CASE-LEW-12119-1] c 37 N80-28711

Curing agent for polyepoxides and epoxy resins and composites cured therewith --- preventing carbon fiber release
[NASA-CASE-LEW-13226-1] c 27 N81-17260

CARRIER FREQUENCIES

CARBON FIBERS
Method and device for detection of a substance --- determining carbon fiber release in fire situations
[NASA-CASE-NPO-14940-1] c 33 N83-31954

Mixed polyvalent-monovalent metal coating for carbon-graphite fibers
[NASA-CASE-NPO-14987-1] c 24 N83-33950

CARBON MONOXIDE
Carbon monoxide monitor --- using real time operation
[NASA-CASE-MFS-22060-1] c 35 N75-29380

CARBON-CARBON COMPOSITES
Daze fasteners
[NASA-CASE-LAR-13009-1] c 37 N83-29706

CARBONACEOUS MATERIALS
Fluidized bed desulfurization
[NASA-CASE-NPO-15924-1] c 25 N83-36122

CARBONATES
Polyurethanes of fluorine containing polycarbonates
[NASA-CASE-MFS-10512] c 06 N73-30099

Synthesis of dawsonites --- for use in fire extinguishing operations
[NASA-CASE-ARC-11326-1] c 25 N83-33977

CARBONIZATION
Method of carbonizing polyacrylonitrile fibers
[NASA-CASE-ARC-11261-1] c 24 N83-25789

CARBONYL COMPOUNDS
Coal desulfurization --- using iron pentacarbonyl
[NASA-CASE-NPO-14272-1] c 25 N81-33246

CARBORANE
Process for the preparation of polycarbonylphosphazenes --- thermal insulation
[NASA-CASE-ARC-11176-2] c 27 N81-27271

Carbonylchlorophosphazenes and their polymers --- thermal insulation
[NASA-CASE-ARC-11176-1] c 27 N82-18389

CARBOXYL GROUP
Novel polycarboxylic prepolymeric materials, and polymers thereof Patent
[NASA-CASE-NPO-10596] c 06 N71-25929

CARBOXYLIC ACIDS
Preparation of polyimides from mixtures of monomeric diamines and esters of polycarboxylic acids
[NASA-CASE-LEW-11325-1] c 06 N73-27980

Fluorinated esters of polycarboxylic acids
[NASA-CASE-MFS-21040-1] c 06 N73-30098

Metal phthalocyanine polymers
[NASA-CASE-ARC-11405-1] c 27 N83-12239

CARCINOGENS
Apparatus for producing three-dimensional recordings of fluorescence spectra Patent
[NASA-CASE-XGS-01231] c 14 N70-41676

CARDIAC VENTRICLES
Contour detector and data acquisition system for the left ventricular outline
[NASA-CASE-ARC-10985-1] c 52 N79-10724

CARDIOGRAPHY
Digital cardiometer system Patent
[NASA-CASE-XMS-02399] c 05 N71-22896

Reference apparatus for medical ultrasonic transducer
[NASA-CASE-ARC-10753-1] c 54 N75-27760

CARDIOLOGY
Ratemeter
[NASA-CASE-MFS-20418] c 14 N73-24473

Myocardium wall thickness transducer and measuring method
[NASA-CASE-NPO-13644-1] c 52 N76-29895

CARDIOTACHOMETERS
Digital computing cardiometer Patent
[NASA-CASE-MFS-20284-1] c 52 N74-12778

CARDIOVASCULAR SYSTEM
G conditioning suit Patent
[NASA-CASE-XLA-02898] c 05 N71-20268

Method and apparatus for continuously monitoring blood oxygenation, blood pressure, pulse rate and the pressure pulse curve utilizing an ear oximeter as transducer Patent
[NASA-CASE-XAC-05422] c 04 N71-23185

Catheter tip force transducer for cardiovascular research
[NASA-CASE-NPO-13643-1] c 52 N76-29896

Low X-ray absorption aneurism clips
[NASA-CASE-LAR-12650-1] c 52 N81-29768

CARGO
Portable pallet weight apparatus
[NASA-CASE-GSC-12789-1] c 35 N83-13425

CARRIER FREQUENCIES
Bi-carrier demodulator with modulation Patent
[NASA-CASE-XMF-01160] c 07 N71-11298

Automatic carrier acquisition system
[NASA-CASE-NPO-11628-1] c 07 N73-30113

Demodulator for carrier transducers
[NASA-CASE-NUC-10107-1] c 33 N74-17930

Decision feedback loop for tracking a polyphase modulated carrier
[NASA-CASE-NPO-13103-1] c 32 N74-20811

CARRIER WAVES

Discriminator aided phase lock acquisition for suppressed carrier signals
[NASA-CASE-NPO-14311-1] c 33 N82-29539

CARRIER WAVES

Variable frequency oscillator with temperature compensation Patent
[NASA-CASE-XNP-03916] c 09 N71-28810
Modulator for tone and binary signals --- phase of modulation of tone and binary signals on carrier waves in communication systems
[NASA-CASE-GSC-11743-1] c 32 N75-24981

CARRIERS

Storage container for electronic devices Patent
[NASA-CASE-MFS-20075] c 09 N71-26133
Apparatus for conducting flow electrophoresis in the substantial absence of gravity
[NASA-CASE-MFS-21394-1] c 34 N74-27744

CARTESIAN COORDINATES

Random function tracer Patent
[NASA-CASE-XLA-01401] c 15 N71-21179

CARTRIDGES

Endless tape cartridge Patent
[NASA-CASE-XGS-00769] c 14 N70-41647
Endless tape transport mechanism Patent
[NASA-CASE-XGS-01223] c 07 N71-10609
Catalyst cartridge for carbon dioxide reduction unit
[NASA-CASE-LAR-10551-1] c 25 N74-12813

CARTS

High production shuttle car system for coal mines
[NASA-CASE-NPO-15949-1] c 37 N83-20155

CASCADE CONTROL

Reversible ring counter employing cascaded single SCR stages Patent
[NASA-CASE-XGS-01473] c 09 N71-10673
Synchronous dc direct drive system Patent
[NASA-CASE-GSC-10065-1] c 10 N71-27136
Multiloop RC active filter apparatus having low parameter sensitivity with low amplifier gain
[NASA-CASE-ARC-10192] c 09 N72-21245

CASCADE FLOW

Cascade plug nozzle --- for jet noise reduction
[NASA-CASE-LAR-11674-1] c 07 N76-18117
Thrust reverser for a long duct fan engine --- for turbofan engines
[NASA-CASE-LEW-13199-1] c 07 N82-26293
Degassifying and mixing apparatus for liquids --- potable water for spacecraft
[NASA-CASE-MSC-18936-1] c 35 N83-29652

CASE BONDED PROPELLANTS

Solid propellant motor
[NASA-CASE-NPO-11458A] c 20 N78-32179

CASES (CONTAINERS)

Non-magnetic battery case Patent
[NASA-CASE-XGS-00886] c 03 N71-11053
Protected isotope heat source --- for atmospheric reentry protection and heat transmission to spacecraft
[NASA-CASE-LEW-11227-1] c 73 N75-30876
Portable heatable container
[NASA-CASE-NPO-14237-1] c 44 N80-20808

CASSEGRAIN ANTENNAS

Cassegrainian antenna subreflector flange for suppressing ground noise Patent
[NASA-CASE-XNP-00683] c 09 N70-35425
Multi-feed cone Cassegrain antenna Patent
[NASA-CASE-NPO-10539] c 07 N71-11285
Millimeter wave radiometer for radio astronomy Patent
[NASA-CASE-XNP-09832] c 30 N71-23723
Dual frequency microwave reflex feed
[NASA-CASE-NPO-13091-1] c 09 N73-12214
Low loss dichroic plate
[NASA-CASE-NPO-13171-1] c 32 N74-11000

CASTING

Hydraulic casting of liquid polymers Patent
[NASA-CASE-XNP-07659] c 06 N71-22975
Asymmetric polyimide separation membrane and method
[NASA-CASE-NPO-15431-1] c 25 N81-29178
Texturing polymer surfaces by transfer casting --- cardiovascular prosthesis
[NASA-CASE-LEW-13120-1] c 27 N82-28440

CASTINGS

Method of making an apertured casting --- using duplicate mold
[NASA-CASE-LEW-11169-1] c 37 N76-23570
Castable high temperature refractory materials
[NASA-CASE-LEW-13080-2] c 27 N82-11210

CATALYSIS

Decomposition unit Patent
[NASA-CASE-XMS-00583] c 28 N70-38504
Apparatus for photon excited catalysis
[NASA-CASE-NPO-13566-1] c 25 N77-32255
Start up system for hydrogen generator used with an internal combustion engine
[NASA-CASE-NPO-13849-1] c 28 N80-10374

Diesel engine catalytic combustor system --- turbocharging
[NASA-CASE-LEW-12995-1] c 37 N80-26659

CATALYTIC ACTIVITY

Autocatalytic coal liquefaction process
[NASA-CASE-NPO-14876-2] c 28 N82-25394

CATALYSTS

Catalyst for growth of boron carbide single crystal whiskers
[NASA-CASE-XHQ-03903] c 15 N69-21922
Catalyst bed removing tool Patent
[NASA-CASE-XFR-00811] c 15 N70-36901
Ignition means for monopropellant Patent
[NASA-CASE-XNP-00876] c 28 N70-41311
Hydrogen leak detection device Patent
[NASA-CASE-MFS-11537] c 14 N71-20442
Catalyst cartridge for carbon dioxide reduction unit
[NASA-CASE-LAR-10551-1] c 25 N74-12813
Catalysts for polyimide foams from aromatic isocyanates and aromatic dianhydrides --- flame retardant foams
[NASA-CASE-ARC-11107-1] c 25 N80-16116
Mixed polyvalent-monovalent metal coating for carbon-graphite fibers
[NASA-CASE-NPO-14987-1] c 24 N83-33950
Photoelectrochemical electrodes
[NASA-CASE-NPO-15458-1] c 25 N84-12262

CATALYTIC ACTIVITY

Combustion engine system
[NASA-CASE-NPO-14565-2] c 25 N83-19826

CATHETERIZATION

Transducer circuit and catheter transducer Patent
[NASA-CASE-ARC-10132-1] c 09 N71-24597
Catheter tip force transducer for cardiovascular research
[NASA-CASE-NPO-13643-1] c 52 N76-29896
Ion beam sputter-etched ventricular catheter for hydrocephalus shunt
[NASA-CASE-LEW-13107-1] c 52 N83-21785

CATHODE RAY TUBES

Single or joint amplitude distribution analyzer Patent
[NASA-CASE-XNP-01383] c 09 N71-10659
Display for binary characters Patent
[NASA-CASE-XGS-04987] c 08 N71-20571
Electron beam tube containing a multiple cathode array employing indexing means for cathode substitution Patent
[NASA-CASE-NPO-10625] c 09 N71-26182
Color television systems using a single gun color cathode ray tube Patent
[NASA-CASE-ERC-10098] c 09 N71-28618
High contrast cathode ray tube
[NASA-CASE-ERC-10468] c 09 N72-20206
Digital video display system using cathode ray tube
[NASA-CASE-NPO-11342] c 09 N72-25248
CRT blanking and brightness control circuit
[NASA-CASE-KSC-10647-1] c 10 N72-31273
Display system
[NASA-CASE-ERC-10350] c 14 N73-20474
Very high intensity light source using a cathode ray tube --- electron beams
[NASA-CASE-XNP-01296] c 33 N75-27250

CATHODES

Ion thruster cathode Patent Application
[NASA-CASE-LEW-10814-1] c 28 N70-35422
Electronic cathode having a brush-like structure and a relatively thick oxide emissive coating Patent
[NASA-CASE-XLE-04501] c 09 N71-23190
Heat activated cell with alkali anode and alkali salt electrolyte Patent
[NASA-CASE-LEW-11358] c 03 N71-26084
Ion thruster with a combination keeper electrode and electron baffle
[NASA-CASE-NPO-11880] c 28 N73-24783
Storage battery comprising negative plates of a wedge shaped configuration --- for preventing shape change induced malfunctions
[NASA-CASE-NPO-11806-1] c 44 N74-19693

CATIONS

Ionene membrane separator
[NASA-CASE-NPO-11091] c 18 N72-22567
Viscoelastic cationic polymers containing the urethane linkage
[NASA-CASE-NPO-10830-1] c 27 N81-15104

CAVITATION FLOW

Semitoroidal diaphragm cavitating valve Patent
[NASA-CASE-XNP-09704] c 12 N71-18615

CAVITIES

Black body cavity radiometer Patent
[NASA-CASE-NPO-10810] c 14 N71-27323
Method of coating through-holes Patent
[NASA-CASE-XMF-05999] c 15 N71-29032
Burrowing apparatus
[NASA-CASE-XNP-07169] c 15 N73-32362
Method of constructing dished ion thruster grids to provide hole array spacing compensation
[NASA-CASE-LEW-11876-1] c 20 N76-21276

Method of making hollow elastomeric bodies
[NASA-CASE-NPO-13535-1] c 37 N76-31524
Method and apparatus for producing concentric hollow spheres --- inertial confinement fusion targets
[NASA-CASE-NPO-14596-1] c 31 N81-33319
Cavity-backed, micro-strip dipole antenna array
[NASA-CASE-MSC-18606-1] c 32 N82-11336
High performance channel injection sealant invention abstract
[NASA-CASE-ARC-14408-1] c 27 N82-33523

CAVITY RESONATORS

Helical coaxial resonator RF filter
[NASA-CASE-XGS-02816] c 07 N69-24323
System for improving signal-to-noise ratio of a communication signal Patent Application
[NASA-CASE-MSC-12259-1] c 07 N70-12616
Temperature-compensating means for cavity resonator of amplifier Patent
[NASA-CASE-XNP-00449] c 14 N70-35220
Holder for crystal resonators Patent
[NASA-CASE-XNP-03637] c 15 N71-21311
System for improving signal-to-noise ratio of a communication signal
[NASA-CASE-MSC-12259-2] c 07 N72-33146
Infrared tunable laser
[NASA-CASE-ARC-10463-1] c 09 N73-32111
Tunable cavity resonator with ramp shaped supports
[NASA-CASE-HQN-10790-1] c 35 N74-11313
Laser apparatus
[NASA-CASE-GSC-12237-1] c 36 N80-14384
Off-axis coherently pumped laser
[NASA-CASE-GSC-12592-1] c 36 N81-12407
Laser Resonator
[NASA-CASE-GSC-12565-1] c 36 N84-14509
Maser cavity servo-tuning system
[NASA-CASE-NPO-15890-1] c 36 N84-15536

CELESTIAL BODIES

Device for determining relative angular position between a spacecraft and a radiation emitting celestial body
[NASA-CASE-GSC-11444-1] c 14 N73-28490
Position determination systems --- using orbital antenna scan of celestial bodies
[NASA-CASE-MSC-12593-1] c 17 N76-21250

CELESTIAL NAVIGATION

Radiant energy intensity measurement system Patent
[NASA-CASE-XNP-06510] c 14 N71-23797

CELL ANODES

Heat activated cell Patent
[NASA-CASE-LEW-11359] c 03 N71-28579
Method of making emf cell
[NASA-CASE-LEW-11359-2] c 03 N72-20034
Electrically rechargeable REDOX flow cell
[NASA-CASE-LEW-12220-1] c 44 N77-14581

CELL DIVISION

Process for control of cell division
[NASA-CASE-LAR-10773-3] c 51 N77-25769

CELLS

Mixture separation cell Patent
[NASA-CASE-XMS-02952] c 18 N71-20742

CELLS (BIOLOGY)

System for and method of freezing biological tissue
[NASA-CASE-GSC-12173-1] c 51 N79-10694
Method for separating biological cells --- suspended in aqueous polymer systems
[NASA-CASE-MFS-23883-1] c 51 N80-16715
Electrophoresis device
[NASA-CASE-MFS-25426-1] c 25 N83-10126

CELLULOSE

Process of treating cellulosic membrane and alkaline with membrane separator
[NASA-CASE-GSC-10019-1] c 44 N82-24641
Separator for alkaline electric cells and method of making
[NASA-CASE-GSC-10017-1] c 44 N82-24643
Alkaline electrochemical cells and method of making
[NASA-CASE-GSC-10349-1] c 44 N82-24645
Aqueous alkali metal hydroxide insoluble cellulose ether membrane
[NASA-CASE-XGS-05584-1] c 25 N82-29370

CENTER OF GRAVITY

Portable pallet weight apparatus
[NASA-CASE-GSC-12789-1] c 35 N83-13425

CENTRIFUGAL COMPRESSORS

Centrifugal-reciprocating compressor
[NASA-CASE-NPO-14597-1] c 37 N79-23431
Centrifugal-reciprocating compressor
[NASA-CASE-NPO-14597-2] c 37 N83-29708

CENTRIFUGAL FORCE

Counter pumping debris excluder and separator --- gas turbine shaft seals
[NASA-CASE-LEW-11855-1] c 07 N78-25090

CENTRIFUGES

Centrifuge mounted motion simulator Patent
[NASA-CASE-XAC-00399] c 11 N70-34815
Separator Patent
[NASA-CASE-XLA-00415] c 15 N71-16079

- Centrifugal lyophobic separator
[NASA-CASE-LAR-10194-1] c 34 N74-30608
- Fluid control apparatus and method
[NASA-CASE-LAR-11110-1] c 34 N75-26282
- Biocentrifuge system capable of exchanging specimen cages while in operational mode
[NASA-CASE-MFS-23825-1] c 51 N81-32829
- CERAMIC BONDING**
Method of making a diffusion bonded refractory coating Patent
[NASA-CASE-XLE-01604-2] c 15 N71-15610
Method of forming ceramic to metal seal Patent
[NASA-CASE-XNP-01263-2] c 15 N71-26312
- CERAMIC COATINGS**
Evaporant holder
[NASA-CASE-XLA-03105] c 15 N69-27483
Unfired-ceramic flame-resistant insulation and method of making the same Patent
[NASA-CASE-XMF-01030] c 18 N70-41583
Ceramic insulation for radiant heating environments and method of preparing the same Patent
[NASA-CASE-MFS-14253] c 33 N71-24858
Method of making a cermet Patent
[NASA-CASE-LEW-10219-1] c 18 N71-28729
Two-component ceramic coating for silica insulation
[NASA-CASE-MSC-14270-1] c 27 N76-22377
Three-component ceramic coating for silica insulation
[NASA-CASE-MSC-14270-2] c 27 N76-23426
Spray coating apparatus having a rotatable workpiece holder
[NASA-CASE-ARC-11110-1] c 37 N82-24492
Laser surface fusion of plasma sprayed ceramic turbine seals
[NASA-CASE-LEW-13269-1] c 18 N83-20996
Thermal barrier coating system having improved adhesion
[NASA-CASE-LEW-1335901] c 27 N83-31855
- CERAMIC NUCLEAR FUELS**
Method of making a cermet Patent
[NASA-CASE-LEW-10219-1] c 18 N71-28729
- CERAMICS**
Transpiration cooled turbine blade manufactured from wires Patent
[NASA-CASE-XLE-00020] c 15 N70-33226
Foamed in place ceramic refractory insulating material Patent
[NASA-CASE-XGS-02435] c 18 N71-22998
Method for fiberizing ceramic materials Patent
[NASA-CASE-XNP-00597] c 18 N71-23088
Method of coating through-holes Patent
[NASA-CASE-XMF-05999] c 15 N71-29032
Extrusion can
[NASA-CASE-NPO-10812] c 15 N73-13464
Thermal shock resistant hafnia ceramic material
[NASA-CASE-LAR-10894-1] c 18 N73-14584
Thermal shock and erosion resistant tantalum carbide ceramic material
[NASA-CASE-LAR-11902-1] c 27 N78-17206
High temperature resistant cermet and ceramic compositions --- for thermal resistant insulators and refractory coatings
[NASA-CASE-NPO-13690-1] c 27 N78-19302
Thermal insulation attaching means --- adhesive bonding of felt vibration insulators under ceramic tiles
[NASA-CASE-MSC-12619-2] c 27 N79-12221
High temperature resistant cermet and ceramic compositions
[NASA-CASE-NPO-13690-2] c 27 N79-14213
Sandblasting nozzle
[NASA-CASE-NPO-13823-1] c 37 N81-25371
Castable high temperature refractory materials
[NASA-CASE-LEW-13080-2] c 27 N82-11210
Fully plasma-sprayed compliant backed ceramic turbine seal
[NASA-CASE-LEW-13268-2] c 37 N82-26674
Fully plasma-sprayed compliant backed ceramic turbine seal
[NASA-CASE-LEW-13268-1] c 27 N82-29453
Shell tile thermal protection system
[NASA-CASE-LAR-12862-1] c 24 N83-17602
- CEREBROSPINAL FLUID**
Ion beam sputter-etched ventricular catheter for hydrocephalus shunt
[NASA-CASE-LEW-13107-1] c 52 N83-21785
- CERENKOV RADIATION**
Cerenkov radiator material and charged particle detection process
[NASA-CASE-GSC-12805-1] c 72 N83-18423
- CERMETS**
Process of casting heavy slips Patent
[NASA-CASE-XLE-00106] c 15 N71-16076
Method of making a cermet Patent
[NASA-CASE-LEW-10219-1] c 18 N71-28729
Cermet composition and method of fabrication --- heat resistant alloys and powders
[NASA-CASE-NPO-13120-1] c 27 N76-15311
- High temperature oxidation resistant cermet compositions
[NASA-CASE-NPO-13666-1] c 27 N77-13217
High temperature resistant cermet and ceramic compositions --- for thermal resistant insulators and refractory coatings
[NASA-CASE-NPO-13690-1] c 27 N78-19302
High temperature resistant cermet and ceramic compositions
[NASA-CASE-NPO-13690-2] c 27 N79-14213
Coating with overlay metallic-cermet alloy systems
[NASA-CASE-LEW-13639-2] c 26 N83-17683
- CESIUM**
Method for removing oxygen impurities from cesium Patent
[NASA-CASE-XNP-04262-2] c 17 N71-26773
Method of producing I-123 --- by bombardment of cesium causing spallation
[NASA-CASE-LEW-11390-2] c 25 N76-27383
- CESIUM DIODES**
Thermionic tantalum emitter doped with oxygen Patent Application
[NASA-CASE-NPO-11138] c 03 N70-34646
Cavity emitter for thermionic converter Patent
[NASA-CASE-NPO-10412] c 09 N71-28421
Thermionic energy converters
[NASA-CASE-LEW-12443-1] c 44 N83-32175
- CESIUM ENGINES**
Variable thrust ion engine utilizing thermally decomposable solid fuel Patent
[NASA-CASE-XMF-00923] c 28 N70-36802
Method of producing porous tungsten ionizers for ion rocket engines Patent
[NASA-CASE-XLE-00455] c 28 N70-38197
- CESIUM VAPOR**
Electric power generation system directory from laser power
[NASA-CASE-NPO-13308-1] c 36 N75-30524
- CHANNEL FLOW**
Method of making a regeneratively cooled combustion chamber Patent
[NASA-CASE-XLE-00150] c 28 N70-41818
Heated element fluid flow sensor Patent
[NASA-CASE-MSC-12084-1] c 12 N71-17569
- CHANNELS (DATA TRANSMISSION)**
Automatic fault correction system for parallel signal channels Patent
[NASA-CASE-XNP-03263] c 09 N71-18843
Helical recorder arrangement for multiple channel recording on both sides of the tape
[NASA-CASE-GSC-10614-1] c 09 N72-11224
Asynchronous, multiplexing, single line transmission and recovery data system --- for satellite use
[NASA-CASE-NPO-13321-1] c 32 N75-26195
High-speed data link for moderate distances and noisy environments
[NASA-CASE-NPO-14152-1] c 32 N80-18252
- CHARACTER RECOGNITION**
Automatic character skew and spacing checking network --- of digital tape drive systems
[NASA-CASE-GSC-11925-1] c 33 N76-18353
System and method for character recognition
[NASA-CASE-NPO-11337-1] c 74 N81-19896
- CHARGE COUPLED DEVICES**
CCD correlated quadruple sampling processor
[NASA-CASE-NPO-14426-1] c 33 N79-17134
Multispectral imaging and analysis system --- using charge coupled devices and linear arrays
[NASA-CASE-NPO-13691-1] c 43 N79-17288
CCD correlated quadruple sampling processor
[NASA-CASE-NPO-14426-1] c 33 N81-27396
- CHARGE DISTRIBUTION**
Method of erasing target material of a vidicon tube or the like Patent
[NASA-CASE-XNP-06028] c 09 N71-23189
Charge storage diode modulators and demodulators
[NASA-CASE-NPO-10189-1] c 33 N77-21314
- CHARGE EXCHANGE**
Ion beam thruster shield
[NASA-CASE-LEW-12082-1] c 20 N77-10148
- CHARGE TRANSFER**
Magnetic counter Patent
[NASA-CASE-XNP-08836] c 09 N71-12515
Pressure transducer --- using a monomeric charge transfer complex sensor
[NASA-CASE-NPO-11150] c 35 N78-17359
- CHARGE TRANSFER DEVICES**
Charge transfer reaction laser with preionization means
[NASA-CASE-NPO-13945-1] c 36 N78-27402
Time delay and integration detectors using charge transfer devices
[NASA-CASE-GSC-12324-1] c 33 N81-33403
Image readout device with electronically variable spatial resolution
[NASA-CASE-LAR-12633-1] c 33 N82-24416
- CHARGED PARTICLES**
Method of forming thin window drifted silicon charged particle detector Patent
[NASA-CASE-XLE-00808] c 24 N71-10560
Electrostatic charged particle analyzer having deflection members shaped according to the periodic voltage applied thereto Patent
[NASA-CASE-XAC-05506-1] c 24 N71-16095
Electrostatic collector for charged particles
[NASA-CASE-LEW-11192-1] c 09 N73-13208
Method and apparatus for neutralizing potentials induced on spacecraft surfaces
[NASA-CASE-GSC-11963-1] c 33 N77-10429
Cerenkov radiator material and charged particle detection process
[NASA-CASE-GSC-12805-1] c 72 N83-18423
- CHARGING**
Synchronous orbit battery cyclor
[NASA-CASE-GSC-11211-1] c 03 N72-25020
- CHARRING**
Ablation sensor
[NASA-CASE-XLA-01781] c 14 N69-39975
Ablation sensor Patent
[NASA-CASE-XLA-01794] c 33 N71-21586
- CHASSIS**
Chassis unit insert tightening-extract device
[NASA-CASE-XMS-01077-1] c 37 N79-33467
- CHECKOUT**
Electronic checkout system for space vehicles Patent
[NASA-CASE-XKS-08012-2] c 31 N71-15566
Rapid activation and checkout device for batteries
[NASA-CASE-MFS-22749-1] c 44 N76-14601
Decommutator patchboard verifier
[NASA-CASE-KSC-11065-1] c 33 N81-26359
- CHELATES**
Ammonium perchlorate composite propellant containing an organic transitional metal chelate catalytic additive Patent
[NASA-CASE-LAR-10173-1] c 27 N71-14090
Chelate-modified polymers for atmospheric gas chromatography
[NASA-CASE-ARC-11154-1] c 25 N80-23383
- CHEMICAL ANALYSIS**
Analytical test apparatus and method for determining oxide content of alkali metal Patent
[NASA-CASE-XLE-01997] c 06 N71-23527
Automated fluid chemical analyzer Patent
[NASA-CASE-XNP-09451] c 06 N71-26754
Method for determining presence of OH in magnesium oxide
[NASA-CASE-NPO-10774] c 06 N72-17095
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- Clock setter
[NASA-CASE-LAR-11458-1] c 35 N76-16392
- CLOSED CIRCUIT TELEVISION**
- Spacecraft docking and alignment system --- using television camera system
[NASA-CASE-MSC-12559-1] c 18 N76-14186
- CLOSED CYCLES**
- Closed loop ranging system Patent
[NASA-CASE-XNP-01501] c 21 N70-41930
- Digital phase-locked loop
[NASA-CASE-GSC-11623-1] c 33 N75-25040
- Lead-oxygen dc power supply system having a closed loop oxygen and water system
[NASA-CASE-MFS-23059-1] c 44 N76-27664

MHD electrical generator
[NASA-CASE-NPO-15399-1] c 75 N82-24079

CLOSED ECOLOGICAL SYSTEMS
Recovery of potable water from human wastes in below-G conditions Patent
[NASA-CASE-XLA-03213] c 05 N71-11207
Space vehicle with artificial gravity and earth-like environment
[NASA-CASE-LEW-11101-1] c 31 N73-32750
Regenerable device for scrubbing breathable air of CO₂ and moisture without special heat exchanger equipment
[NASA-CASE-MSC-14771-1] c 54 N77-32722
Cell and method for electrolysis of water and anode
[NASA-CASE-MSC-16394-1] c 28 N81-24280

CLOSURES
Canister closing device Patent
[NASA-CASE-XLA-01446] c 15 N71-21528
Spacesuit torso closure
[NASA-CASE-ARC-11100-1] c 54 N78-31736

CLOUD CHAMBERS
Heat transfer device
[NASA-CASE-MFS-22938-1] c 34 N76-18374

CLOUD COVER
Cloud cover sensor
[NASA-CASE-NPO-14936-1] c 47 N83-32232

CLOUDS (METEOROLOGY)
Rocket borne instrument to measure electric fields inside electrified clouds
[NASA-CASE-KSC-10730-1] c 14 N73-32318
Electric field measuring and display system --- for cloud formations
[NASA-CASE-KSC-10731-1] c 33 N74-27862

CLUTCHES
Directional gear ratio transmission
[NASA-CASE-LAR-12644-1] c 37 N82-29605
Rotary stepping device with memory metal actuator
[NASA-CASE-NPO-15482-1] c 37 N83-36484

CLUTTER
Clutter free synthetic aperture radar correlator
[NASA-CASE-NPO-14035-1] c 32 N83-19968

CMOS
Complementary DMOS-VMOS integrated circuit structure
[NASA-CASE-GSC-12190-1] c 33 N79-12321

COAL
Underground mineral extraction
[NASA-CASE-NPO-14140-1] c 31 N78-24387
Coal-shale interface detection
[NASA-CASE-MFS-23720-3] c 43 N79-25443
Thickness measurement system
[NASA-CASE-MFS-23721-1] c 31 N79-28370
Coal-rock interface detector
[NASA-CASE-MFS-23725-1] c 43 N79-31706
Coal-shale interface detection system
[NASA-CASE-MFS-23720-2] c 43 N80-14423
Coal-shale interface detector
[NASA-CASE-MFS-23720-1] c 43 N80-23711
Coal desulfurization --- using iron pentacarbonyl
[NASA-CASE-NPO-14272-1] c 25 N81-33246
Coal desulfurization by aqueous chlorination
[NASA-CASE-NPO-14902-1] c 25 N82-29371
Longwall shearer tracking system
[NASA-CASE-MFS-25717-1] c 43 N83-14607
High production shuttle car system for coal mines
[NASA-CASE-NPO-15949-1] c 37 N83-20155
Hydrodesulfurization of chlorinated coal
[NASA-CASE-NPO-15304-1] c 25 N83-31743
Fluidized bed desulfurization
[NASA-CASE-NPO-15924-1] c 25 N83-36122
Supercritical multicomponent solvent coal extraction
[NASA-CASE-NPO-15767-1] c 23 N84-16255

COAL GASIFICATION
Solar heated fluidized bed gasification system
[NASA-CASE-NPO-15071-1] c 44 N82-16475
Pressure letdown method and device for coal conversion systems
[NASA-CASE-NPO-15100-1] c 44 N84-14583
Micronized coal burner facility
[NASA-CASE-LEW-13426-1] c 25 N84-16276

COAL LIQUEFACTION
Surfactant-assisted liquefaction of particulate carbonaceous substances
[NASA-CASE-NPO-13904-1] c 25 N79-11152
Autocatalytic coal liquefaction process
[NASA-CASE-NPO-14876-2] c 28 N82-25394
Fluidized bed coal liquefaction
[NASA-CASE-NPO-15891-1] c 25 N83-36120

COAL UTILIZATION
Coal desulfurization process
[NASA-CASE-NPO-13937-1] c 44 N78-31527
Continuous coal processing method
[NASA-CASE-NPO-13758-2] c 31 N81-15154
Fluidized bed coal combustion reactor
[NASA-CASE-NPO-14273-1] c 25 N82-11144

COATING

Method of coating circuit paths on printed circuit boards with solder Patent
[NASA-CASE-XMF-01599] c 09 N71-20705
Process for applying black coating to metals Patent
[NASA-CASE-XLA-06199] c 15 N71-24875
Method of forming metal hydride films
[NASA-CASE-LEW-12083-1] c 37 N78-13436
Selective coating for solar panels --- using black chrome and black nickel
[NASA-CASE-LEW-12159-1] c 44 N78-19599
Boron trifluoride coatings for thermoplastic materials and method of applying same in glow discharge
[NASA-CASE-ARC-11057-1] c 27 N78-31233
Process for producing a well-adhered durable optical coating on an optical plastic substrate --- abrasion resistant polymethyl methacrylate lenses
[NASA-CASE-ARC-11039-1] c 74 N78-32854
Oxidation resistant slurry coating for carbon-based materials
[NASA-CASE-LEW-13923-1] c 24 N84-16266
Contactless pellet fabrication
[NASA-CASE-NPO-15592-1] c 71 N84-16940

COATINGS

Bonded solid lubricant coating Patent
[NASA-CASE-XMS-00259] c 18 N70-36400
High contrast cathode ray tube
[NASA-CASE-ERC-10468] c 09 N72-20206
Durable antistatic coating for polymethylmethacrylate
[NASA-CASE-NPO-13867-1] c 27 N78-14164
Edge coating of flat wires
[NASA-CASE-XMF-05757-1] c 31 N79-21227
Advanced inorganic separators for alkaline batteries and method of making the same
[NASA-CASE-LEW-13171-2] c 44 N83-32176

COAXIAL CABLES

Transmission line thermal short Patent
[NASA-CASE-XNP-09775] c 09 N71-20445
Coaxial cable connector Patent
[NASA-CASE-XNP-04732] c 09 N71-20851
Transducer circuit and catheter transducer Patent
[NASA-CASE-ARC-10132-1] c 09 N71-24597
Collapsible antenna boom and transmission line Patent
[NASA-CASE-MFS-20068] c 07 N71-27191
Vibration isolation system using compression springs
[NASA-CASE-NPO-11012] c 15 N72-11391
Hermetically sealed semiconductor
[NASA-CASE-GSC-10791-1] c 15 N73-14469
System for stabilizing cable phase delay utilizing a coaxial cable under pressure
[NASA-CASE-NPO-13138-1] c 33 N74-17927
Refrigerated coaxial coupling --- for microwave equipment
[NASA-CASE-NPO-13504-1] c 33 N75-30430
High power RF coaxial switch
[NASA-CASE-NPO-14229-1] c 33 N80-18285

COAXIAL PLASMA ACCELERATORS

Self-energized plasma compressor
[NASA-CASE-MFS-22145-2] c 75 N76-17951

COBALT

Process for improving moisture resistance of epoxy resins by addition of cobalt ions --- potential applications to composite matrix resins, adhesives, and casting resins for aerospace utilization
[NASA-CASE-LAR-13230-1] c 27 N84-20701

COBALT ALLOYS

High temperature cobalt-base alloy Patent
[NASA-CASE-XLE-00726] c 17 N71-15644
High temperature cobalt-base alloy Patent
[NASA-CASE-XLE-02991] c 17 N71-16025
High temperature ferromagnetic cobalt-base alloy Patent
[NASA-CASE-XLE-03629] c 17 N71-23248
Cobalt-base alloy
[NASA-CASE-LEW-10436-1] c 17 N73-32415
Overlay metallic-cermet alloy coating systems --- for gas turbine engines
[NASA-CASE-LEW-13639-1] c 27 N82-33522

COBALT OXIDES

High contrast cathode ray tube
[NASA-CASE-ERC-10468] c 09 N72-20206

COCKPIT SIMULATORS

Controlled visibility device for an aircraft Patent
[NASA-CASE-XFR-04147] c 11 N71-10748

COCKPITS

Aircraft canopy lock
[NASA-CASE-FRC-11065-1] c 05 N83-19737

CODERS

Encoder/decoder system for a rapidly synchronizable binary code Patent
[NASA-CASE-NPO-10342] c 10 N71-33407
Modular encoder
[NASA-CASE-NPO-10629] c 08 N72-18184

Method and apparatus for decoding compatible convolutional codes
[NASA-CASE-MSC-14070-1] c 32 N74-32598
Digital plus analog output encoder
[NASA-CASE-GSC-12115-1] c 62 N76-31946
Twin-capacitive shaft angle encoder with analog output signal
[NASA-CASE-ARC-10897-1] c 33 N77-31404

CODING

Error correcting method and apparatus Patent
[NASA-CASE-XNP-02748] c 08 N71-22749
Rate data encoder
[NASA-CASE-LAR-10128-1] c 08 N73-20217
Binary concatenated coding system
[NASA-CASE-MSC-14082-1] c 60 N76-23850
Differential pulse code modulation
[NASA-CASE-MSC-12506-1] c 32 N77-12239

COEFFICIENT OF FRICTION

Static coefficient test method and apparatus
[NASA-CASE-GSC-11893-1] c 35 N76-31489
Locking redundant link
[NASA-CASE-LAR-11900-1] c 37 N79-14382

COENZYMES

Flavin coenzyme assay
[NASA-CASE-GSC-10565-1] c 06 N72-25149

COHERENT ELECTROMAGNETIC RADIATION

Folded traveling wave maser structure Patent
[NASA-CASE-XNP-05219] c 16 N71-15550
Focused image holography with extended sources Patent
[NASA-CASE-ERC-10019] c 16 N71-15551
Off-axis coherently pumped laser
[NASA-CASE-GSC-12592-1] c 36 N81-12407

COHERENT LIGHT

Hybrid holographic system using reflected and transmitted object beams simultaneously Patent
[NASA-CASE-MFS-20074] c 16 N71-15565
Amplitude modulated laser transmitter Patent
[NASA-CASE-XMS-04269] c 16 N71-22895
Device for measuring light scattering wherein the measuring beam is successively reflected between a pair of parallel reflectors Patent
[NASA-CASE-XER-11203] c 14 N71-28994

COHERENT RADIATION

Laser communication system for controlling several functions at a location remote to the laser
[NASA-CASE-LAR-10311-1] c 16 N73-16536
Monitoring atmospheric pollutants with a heterodyne radiometer transmitter-receiver
[NASA-CASE-NPO-11919-1] c 35 N74-11284
Apparatus for scanning the surface of a cylindrical body
[NASA-CASE-NPO-11861-1] c 36 N74-20009
Optically detonated explosive device
[NASA-CASE-NPO-11743-1] c 28 N74-27425
Method and apparatus for generating coherent radiation in the ultra-violet region and above by use of distributed feedback
[NASA-CASE-NPO-13346-1] c 36 N76-29575
Coherently pulsed laser source
[NASA-CASE-NPO-15111-1] c 36 N82-29589

COINCIDENCE CIRCUITS

Frequency measurement by coincidence detection with standard frequency
[NASA-CASE-MSC-14649-1] c 33 N76-16331

COLD CATHODES

Meteoroid detector
[NASA-CASE-LAR-10483-1] c 14 N73-32327

COLD GAS

Annular arc accelerator shock tube
[NASA-CASE-NPO-13528-1] c 09 N77-10071

COLD WELDING

Method of cold welding using ion beam technology
[NASA-CASE-LEW-12982-1] c 37 N81-19455

COLD WORKING

Hydroforming techniques using epoxy molds Patent
[NASA-CASE-XLE-05641-1] c 15 N71-26346

COLLAPSE

Collapsible pistons
[NASA-CASE-MSC-13789-1] c 11 N73-32152

COLLECTION

Automatic liquid inventory collecting and dispensing unit
[NASA-CASE-LAR-11071-1] c 35 N75-19611
Urine collection device
[NASA-CASE-MSC-16433-1] c 52 N78-27750
Absorbent product to absorb fluids --- for collection of human wastes
[NASA-CASE-MSC-18223-1] c 24 N82-29362

COLLIMATION

Long range laser traversing system
[NASA-CASE-GSC-11262-1] c 36 N74-21091
Optical alignment device
[NASA-CASE-ARC-10932-1] c 74 N76-22993
Spatial filter for Q-switched lasers
[NASA-CASE-LEW-12164-1] c 36 N77-32478

- Dual acting slit control mechanism
[NASA-CASE-LAR-11370-1] c 35 N80-28686
- Method for shaping and aiming narrow beams --- sonar mapping and target identification
[NASA-CASE-NPO-14632-1] c 32 N82-18443
- Beam forming network
[NASA-CASE-NPO-15743-1] c 32 N83-19969
- Sonic levitation apparatus
[NASA-CASE-MFS-25828-1] c 71 N83-26646
- Dual laser optical system and method for studying fluid flow
[NASA-CASE-MFS-25315-1] c 36 N83-29680
- Ion beam accelerator system
[NASA-CASE-NPO-15547-1] c 72 N84-16959
- COLLIMATORS**
X-ray reflection collimator adapted to focus X-radiation directly on a detector Patent
[NASA-CASE-XHQ-04106] c 14 N70-40240
- Collimator of multiple plates with axially aligned identical random arrays of apertures
[NASA-CASE-MFS-20546-2] c 14 N73-30389
- Multiplate focusing collimator --- for scanning small near radiation sources
[NASA-CASE-MFS-20932-1] c 35 N75-19616
- Method for shaping and aiming narrow beams --- sonar mapping and target identification
[NASA-CASE-NPO-14632-1] c 32 N82-18443
- Constant magnification optical tracking system
[NASA-CASE-NPO-14813-1] c 74 N82-24072
- Multiprism collimator
[NASA-CASE-GSC-12608-1] c 74 N83-10900
- COLLISION AVOIDANCE**
Cooperative Doppler radar system Patent
[NASA-CASE-LAR-10403] c 21 N71-11766
- Satellite aided vehicle avoidance system Patent
[NASA-CASE-ERC-10090] c 21 N71-24948
- Stacked array of omnidirectional antennas
[NASA-CASE-LAR-10545-1] c 09 N72-21244
- Display research collision warning system
[NASA-CASE-HQN-10703] c 21 N73-13643
- Apparatus for aiding a pilot in avoiding a midair collision between aircraft
[NASA-CASE-LAR-10717-1] c 21 N73-30641
- Satellite aided vehicle avoidance system
[NASA-CASE-ERC-10419-1] c 03 N75-30132
- COLLOIDAL GENERATORS**
Colloid propulsion method and apparatus Patent
[NASA-CASE-XLE-00817] c 28 N70-33265
- COLLOIDAL PROPELLANTS**
Colloid propulsion method and apparatus Patent
[NASA-CASE-XLE-00817] c 28 N70-33265
- Low viscosity magnetic fluid obtained by the colloidal suspension of magnetic particles Patent
[NASA-CASE-XLE-01512] c 12 N70-40124
- Annular slit colloid thruster Patent
[NASA-CASE-GSC-10709-1] c 28 N71-25213
- COLLOIDS**
The 2 deg/90 deg laboratory scattering photometer --- particulate refractivity in hydrosols
[NASA-CASE-GSC-12088-1] c 74 N78-13874
- COLOR**
Nondestructive spot test method for magnesium and magnesium alloys
[NASA-CASE-LAR-10953-1] c 17 N73-27446
- Spectrally balanced chromatic landing approach lighting system
[NASA-CASE-ARC-10990-1] c 04 N82-16059
- COLOR PHOTOGRAPHY**
Method of recording a gas flow pattern Patent
[NASA-CASE-XMF-01779] c 12 N71-20815
- Method for retarding dye fading during archival storage of developed color photographic film --- inert atmosphere
[NASA-CASE-MFS-23250-1] c 35 N82-11432
- COLOR TELEVISION**
Color television systems using a single gun color cathode ray tube Patent
[NASA-CASE-ERC-10098] c 09 N71-28618
- Color television system
[NASA-CASE-MSC-12146-1] c 07 N72-17109
- Scan converting video tape recorder
[NASA-CASE-NPO-10166-1] c 07 N73-22076
- Scan converting video tape recorder
[NASA-CASE-NPO-10166-2] c 35 N76-16391
- System for producing chroma signals
[NASA-CASE-MSC-14683-1] c 74 N77-18893
- Full color hybrid display for aircraft simulators --- landing aids
[NASA-CASE-ARC-10903-1] c 09 N78-18083
- COLOR VISION**
Color perception tester
[NASA-CASE-KSC-10278] c 05 N72-16015
- COLUMNS**
Lightweight structural columns --- space erectable trusses
[NASA-CASE-LAR-12095-1] c 31 N81-25258
- COLUMNS (PROCESS ENGINEERING)**
Micropacked column for a chromatographic system
[NASA-CASE-XNP-04816] c 06 N69-39936
- COLUMNS (SUPPORTS)**
Telescoping columns --- parabolic antenna support
[NASA-CASE-LAR-12195-1] c 31 N81-27324
- Self-locking mechanical center joint --- for space construction
[NASA-CASE-LAR-12864-1] c 37 N82-29606
- COMBINATORIAL ANALYSIS**
Apparatus for computing square roots Patent
[NASA-CASE-XGS-04768] c 08 N71-19437
- COMBUSTION**
Combustion detector
[NASA-CASE-LAR-10739-1] c 14 N73-16484
- COMBUSTION CHAMBERS**
Rocket chamber leak test fixture
[NASA-CASE-XFR-09479] c 14 N69-27503
- Rocket propellant injector Patent
[NASA-CASE-XLE-00103] c 28 N70-33241
- Formed metal ribbon wrap Patent
[NASA-CASE-XLE-00164] c 15 N70-36411
- Injector-valve device Patent
[NASA-CASE-XLE-00303] c 15 N70-36535
- Ignition system for monopropellant combustion devices Patent
[NASA-CASE-XNP-00249] c 28 N70-38249
- Method of making a regeneratively cooled combustion chamber Patent
[NASA-CASE-XLE-00150] c 28 N70-41818
- Control of transverse instability in rocket combustors Patent
[NASA-CASE-XLE-04603] c 33 N71-21507
- Combustion chamber Patent
[NASA-CASE-XLE-04857] c 28 N71-23968
- Rocket engine injector Patent
[NASA-CASE-XLE-03157] c 28 N71-24736
- Coaxial injector for reaction motors
[NASA-CASE-NPO-11095] c 15 N72-25455
- Swirl can primary combustor
[NASA-CASE-LEW-11326-1] c 23 N73-30665
- Method of electroforming a rocket chamber
[NASA-CASE-LEW-11118-1] c 20 N74-32919
- Controlled separation combustor --- airflow distribution in gas turbine engines
[NASA-CASE-LEW-11593-1] c 20 N76-14190
- Fuel combustor
[NASA-CASE-LEW-12137-1] c 25 N78-10224
- Direct heating surface combustor
[NASA-CASE-LEW-11877-1] c 34 N78-27357
- Combustor --- low nitrogen oxide formation
[NASA-CASE-NPO-13958-1] c 25 N79-11151
- Heat exchanger --- rocket combustion chambers and cooling systems
[NASA-CASE-LEW-12252-1] c 34 N79-13288
- General purpose rocket furnace
[NASA-CASE-MFS-23460-1] c 12 N79-26075
- Reduction of nitric oxide emissions from a combustor
[NASA-CASE-ARC-10814-2] c 07 N80-26298
- Diesel engine catalytic combustor system --- turbocharging
[NASA-CASE-LEW-12995-1] c 37 N80-26659
- Fluidized bed coal combustion reactor
[NASA-CASE-NPO-14273-1] c 25 N82-11144
- Steam cooled rich-burn combustor liner
[NASA-CASE-LEW-13609-1] c 25 N83-17628
- Micronized coal burner facility
[NASA-CASE-LEW-13426-1] c 25 N84-16276
- COMBUSTION CONTROL**
Burning rate control of solid propellants Patent
[NASA-CASE-XLE-03494] c 27 N71-21819
- COMBUSTION EFFICIENCY**
Rocket engine injector Patent
[NASA-CASE-XLE-00111] c 28 N70-38199
- COMBUSTION PHYSICS**
Solid propellant rocket motor
[NASA-CASE-NPO-11559] c 28 N73-24784
- Plasma igniter for internal combustion engine
[NASA-CASE-NPO-13828-1] c 37 N79-11405
- COMBUSTION PRODUCTS**
Separation nut Patent
[NASA-CASE-XGS-01971] c 15 N71-15922
- Combustion products generating and metering device
[NASA-CASE-GSC-11095-1] c 14 N72-10375
- System for minimizing internal combustion engine pollution emission
[NASA-CASE-NPO-13402-1] c 37 N76-18457
- Coal desulfurization process
[NASA-CASE-NPO-13937-1] c 44 N78-31527
- Combustor --- low nitrogen oxide formation
[NASA-CASE-NPO-13958-1] c 25 N79-11151
- COMBUSTION STABILITY**
Control of transverse instability in rocket combustors Patent
[NASA-CASE-XLE-04603] c 33 N71-21507
- COMET TAILS**
Ion mass spectrometer --- exploring comet tails
[NASA-CASE-NPO-15423-1] c 91 N82-25042
- COMFORT**
Ride quality meter
[NASA-CASE-LAR-12882-1] c 35 N84-12445
- COMMAND AND CONTROL**
Multiple rate digital command detection system with range clean-up capability
[NASA-CASE-NPO-13753-1] c 32 N77-20289
- Common data buffer system --- communication with computational equipment utilized in spacecraft operations
[NASA-CASE-KSC-11048-1] c 62 N81-24779
- COMMAND MODULES**
Low onset rate energy absorber
[NASA-CASE-MSC-12279] c 15 N72-17450
- COMMUNICATING**
Communications link for computers
[NASA-CASE-NPO-11161] c 08 N72-25207
- COMMUNICATION**
Correlation function apparatus Patent
[NASA-CASE-XNP-00746] c 07 N71-21476
- System for improving signal-to-noise ratio of a communication signal
[NASA-CASE-MSC-12259-2] c 07 N72-33146
- COMMUNICATION CABLES**
Method of making a molded connector Patent
[NASA-CASE-XMF-03498] c 15 N71-15986
- Process for making RF shielded cable connector assemblies and the products formed thereby
[NASA-CASE-GSC-11215-1] c 09 N73-28083
- Fiber distributed feedback laser
[NASA-CASE-NPO-13531-1] c 36 N76-24553
- High-speed data link for moderate distances and noisy environments
[NASA-CASE-NPO-14152-1] c 32 N80-18252
- High acceleration cable deployment system
[NASA-CASE-ARC-11256-1] c 15 N82-24272
- COMMUNICATION EQUIPMENT**
Elimination of frequency shift in a multiplex communication system Patent
[NASA-CASE-XNP-01306] c 07 N71-20814
- Decoder system Patent
[NASA-CASE-NPO-10118] c 07 N71-24741
- Data-aided carrier tracking loops
[NASA-CASE-NPO-11282] c 10 N73-16205
- Doppler compensation by shifting transmitted object frequency within limits
[NASA-CASE-GSC-10087-4] c 07 N73-20174
- Differential phase shift keyed communication system
[NASA-CASE-MSC-14065-1] c 32 N74-26654
- COMMUNICATION NETWORKS**
Multicomputer communication system
[NASA-CASE-NPO-15433-1] c 62 N83-20634
- COMMUNICATION SATELLITES**
Passive communication satellite Patent
[NASA-CASE-XLA-00210] c 30 N70-40309
- Apparatus providing a directive field pattern and attitude sensing of a spin stabilized satellite Patent
[NASA-CASE-XGS-02607] c 31 N71-23009
- Deep space monitor communication satellite system Patent
[NASA-CASE-XAC-06029-1] c 31 N71-24813
- Satellite communication system Patent
[NASA-CASE-XNP-02389] c 07 N71-28900
- Satellite aided vehicle avoidance system
[NASA-CASE-ERC-10419-1] c 03 N75-30132
- Ultra stable frequency distribution system
[NASA-CASE-NPO-13836-1] c 32 N78-15323
- Beam forming network
[NASA-CASE-NPO-15743-1] c 32 N83-19969
- COMMUTATION**
High speed low level electrical stepping switch Patent
[NASA-CASE-XAC-00060] c 09 N70-39915
- Elimination of current spikes in buck power converters
[NASA-CASE-NPO-14505-1] c 33 N81-19393
- COMMUTATORS**
Scanning aspect sensor employing an apertured disc and a commutator
[NASA-CASE-XGS-08266] c 14 N69-27432
- Current steering commutator
[NASA-CASE-NPO-10743] c 08 N72-21199
- COMPARATOR CIRCUITS**
Digital frequency discriminator Patent
[NASA-CASE-MFS-14322] c 08 N71-18692
- Pulsed differential comparator circuit Patent
[NASA-CASE-XLE-03804] c 10 N71-19471
- Multi-cell battery protection system
[NASA-CASE-LEW-12039-1] c 44 N78-14625
- Window comparator
[NASA-CASE-FRC-10090-1] c 33 N78-18308
- COMPARATORS**
Fluid flow meter with comparator reference means Patent
[NASA-CASE-XGS-01331] c 14 N71-22996

Comparator for the comparison of two binary numbers Patent
 [NASA-CASE-XNP-04819] c 08 N71-23295
 High stability buffered phase comparator
 [NASA-CASE-GSC-12645-1] c 33 N84-16454

COMPENSATORS
 Star image motion compensator
 [NASA-CASE-LAR-10523-1] c 14 N72-22444
 Thermal compensator for closed-cycle helium refrigerator --- assuring constant temperature for an infrared laser diode
 [NASA-CASE-GSC-12168-1] c 31 N79-17029
 Apparatus for and method of compensating dynamic unbalance
 [NASA-CASE-GSC-12550-1] c 37 N81-22358

COMPLEX COMPOUNDS
 Synthesis of polyformals
 [NASA-CASE-ARC-11244-1] c 23 N82-16174

COMPOSITE MATERIALS
 Reinforced metallic composites Patent
 [NASA-CASE-XLE-02428] c 17 N70-33288
 Method of making fiber reinforced metallic composites Patent
 [NASA-CASE-XLE-00231] c 17 N70-38198
 Reinforced metallic composites Patent
 [NASA-CASE-XLE-00228] c 17 N70-38490
 Unfired-ceramic flame-resistant insulation and method of making the same Patent
 [NASA-CASE-XMF-01030] c 18 N70-41583
 Process of casting heavy slips Patent
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Control for nuclear thermionic power source
[NASA-CASE-NPO-13114-2] c 73 N78-28913

Illumination control apparatus for compensating solar light
[NASA-CASE-KSC-11010-1] c 74 N79-12890

Dual acting slit control mechanism
[NASA-CASE-LAR-11370-1] c 35 N80-28686

Pneumatic inflatable end effector
[NASA-CASE-MFS-23696-1] c 54 N81-26718

Means for controlling aerodynamically induced twist
[NASA-CASE-LAR-12175-1] c 05 N82-28279

Electronic system for high power load control --- solar arrays
[NASA-CASE-NPO-15358-1] c 33 N83-27126

Apparatus for adapting an end effector device remotely controlled manipulator arm
[NASA-CASE-MFS-25949-1] c 37 N84-11501

Pulsed thyristor trigger control circuit
[NASA-CASE-MFS-25616-1] c 33 N84-16455

CONTROL ROCKETS

Decomposition unit. Patent
[NASA-CASE-XMS-00583] c 28 N70-38504

CONTROL RODS

Null device for hand controller. Patent
[NASA-CASE-XLA-01808] c 15 N71-20740

CONTROL SIMULATION

Helmet weight simulator
[NASA-CASE-LAR-12320-1] c 54 N81-27806

CONTROL STABILITY

Apparatus for sensor failure detection and correction in a gas turbine engine control system
[NASA-CASE-LEW-12907-2] c 07 N81-19115

Apparatus for damping operator induced oscillations of a controlled system --- flight control
[NASA-CASE-FRC-11041-1] c 33 N82-18493

CONTROL SURFACES

Conical valve plug. Patent
[NASA-CASE-XLE-00715] c 15 N70-34859

Attitude control for spacecraft. Patent
[NASA-CASE-XNP-02982] c 31 N70-41855

Vortex-lift roll-control device
[NASA-CASE-LAR-11868-2] c 08 N79-14108

Aerodynamic side-force alleviator means
[NASA-CASE-LAR-12326-1] c 02 N81-14968

Thermal barrier pressure seal --- shielding junctions between spacecraft control surfaces and structures
[NASA-CASE-MSC-18134-1] c 37 N81-15363

CONTROL UNITS (COMPUTERS)

Self-testing and repairing computer. Patent
[NASA-CASE-NPO-10567] c 08 N71-24633

CONTROL VALVES

Electromechanical actuator
[NASA-CASE-XNP-05975] c 15 N69-23185

Full flow with shut off and selective drainage control valve. Patent application
[NASA-CASE-ERC-10208] c 15 N70-10867

Conical valve plug. Patent
[NASA-CASE-XLE-00715] c 15 N70-34859

Control valve and co-axial variable injector. Patent
[NASA-CASE-XNP-09702] c 15 N71-17654

Electrohydrodynamic control valve. Patent
[NASA-CASE-NPO-10416] c 12 N71-27332

Force-balanced, throttle valve. Patent
[NASA-CASE-NPO-10808] c 15 N71-27432

Dual stage check valve
[NASA-CASE-MSC-13587-1] c 15 N73-30459

Airflow control system for supersonic inlets
[NASA-CASE-LEW-11188-1] c 02 N74-20646

Ultrasonically bonded valve assembly
[NASA-CASE-NPO-13360-1] c 37 N75-25185

Pressure modulating valve
[NASA-CASE-MSC-14905-1] c 37 N77-28487

Fluid valve assembly
[NASA-CASE-MSC-12731-1] c 37 N78-25426

Flow diverter valve and flow diversion method
[NASA-CASE-HQN-00573-1] c 37 N79-33468

Quartz ball valve
[NASA-CASE-NPO-14473-1] c 37 N80-23654

Pressure control valve --- inflating flexible bladders
[NASA-CASE-ARC-11251-1] c 37 N81-17433

Electrical servo actuator bracket --- fuel control valves on jet engines
[NASA-CASE-FRC-11044-1] c 37 N81-33483

Slow opening valve
[NASA-CASE-MSC-20112-1] c 37 N82-28641

Air modulation apparatus --- cooling gas turbine engines
[NASA-CASE-LEW-13524-1] c 34 N83-30957

Control means for a gas turbine engine
[NASA-CASE-LEW-14586-1] c 07 N83-31603

CONTROLLED ATMOSPHERES

Electrical connector. Patent Application
[NASA-CASE-MFS-14741] c 09 N70-20737

High voltage pulse generator. Patent
[NASA-CASE-MSC-12178-1] c 09 N71-13518

Exposure system for animals. Patent
[NASA-CASE-XAC-05333] c 11 N71-22875

Method and apparatus for growth of crystals by pressure reduction of supercritical or subcritical solution
[NASA-CASE-NPO-15772-1] c 76 N82-23031

CONTROLLERS

Three axis controller. Patent
[NASA-CASE-XFR-00181] c 21 N70-33279

Two-axis controller. Patent
[NASA-CASE-XFR-04104] c 03 N70-42073

Controllers. Patent
[NASA-CASE-XMS-07487] c 15 N71-23255

Solid state controller three axes controller
[NASA-CASE-MSC-12394-1] c 08 N74-10942

Wide power range microwave feedback controller
[NASA-CASE-GSC-12146-1] c 33 N78-32340

Active nutation controller
[NASA-CASE-GSC-12273-1] c 35 N80-21719

Phase-angle controller for Stirling engines
[NASA-CASE-NPO-14388-1] c 37 N81-17432

Controller for computer control of brushless dc motors --- automobile engines
[NASA-CASE-NPO-13970-1] c 33 N81-20352

Motor power factor controller with a reduced voltage starter
[NASA-CASE-MFS-25586-1] c 33 N82-11360

Thumb actuated two axis controller
[NASA-CASE-ARC-11372-1] c 08 N83-12098

Phase detector for three-phase power factor controller
[NASA-CASE-MFS-25854-1] c 33 N83-17804

Memory-based parallel data output controller
[NASA-CASE-GSC-12447-2] c 17 N83-29302

CONVECTION

Method and apparatus for minimizing convection during crystal growth from solution
[NASA-CASE-NPO-15811-1] c 76 N84-12968

CONVECTIVE FLOW

Geysering inhibitor for vertical cryogenic transfer pipe
[NASA-CASE-KSC-10615] c 15 N73-12486

Method and apparatus for convection control of metallic halide vapor density in a metallic halide laser
[NASA-CASE-NPO-15021-1] c 36 N83-10417

CONVECTIVE HEAT TRANSFER

Thin film gauge --- for measuring convective heat transfer rates along test surfaces in wind tunnels
[NASA-CASE-NPO-10617-1] c 35 N74-22095

CONVERGENCE

Shock wave convergence apparatus
[NASA-CASE-MFS-20890] c 14 N72-22439

CONVERGENT NOZZLES

Nozzle extraction process and handmeter for measuring handle
[NASA-CASE-LAR-12147-1] c 31 N79-11246

CONVERGENT-DIVERGENT NOZZLES

Gimbaled, partially submerged rocket nozzle. Patent
[NASA-CASE-XMF-01544] c 28 N70-34162

Combustion chamber. Patent
[NASA-CASE-XLE-04857] c 28 N71-23968

Aircraft engine nozzle
[NASA-CASE-ARC-10977-1] c 07 N80-32392

Wind tunnel supplementary Mach number minimum section insert
[NASA-CASE-LAR-12532-1] c 09 N82-11088

CONVERTERS

Scan converting video tape recorder
[NASA-CASE-NPO-10166-2] c 35 N76-16391

CONVEYORS

System and method for refurbishing and processing parachutes --- monorial conveyor system
[NASA-CASE-KSC-11042-2] c 02 N81-26073

Method for refurbishing and processing parachutes
[NASA-CASE-KSC-11042-1] c 09 N82-29330

Static continuous electrophoresis device
[NASA-CASE-MFS-25306-1] c 25 N83-13187

Acoustic system for material transport
[NASA-CASE-NPO-15453-1] c 71 N83-32515

COOLERS

Stirling cycle cryogenic cooler --- magnetically suspended pistons
[NASA-CASE-GSC-12697-1] c 31 N82-11312

COOLING

Microwave power receiving antenna. Patent
[NASA-CASE-MFS-20333] c 09 N71-13486

Voltage regulator with plural parallel power source sections. Patent
[NASA-CASE-GSC-10891-1] c 10 N71-26626

Laser coolant and ultraviolet filter
[NASA-CASE-MFS-20180] c 16 N72-12440

Compact pulsed laser having improved heat conductance
[NASA-CASE-NPO-13147-1] c 36 N77-25502

Heat pipe cooled probe
[NASA-CASE-LAR-12588-1] c 44 N81-24525

Steam cooled rich-burn combustor liner
[NASA-CASE-LEW-13609-1] c 25 N83-17628

Heating and cooling system --- for fatigue test specimens
[NASA-CASE-LAR-12393-1] c 34 N83-34221

COOLING SYSTEMS

Automatic thermal switch. Patent
[NASA-CASE-XNP-03796] c 23 N71-15467

Differential temperature transducer. Patent
[NASA-CASE-XAC-00812] c 14 N71-15598

Power system with heat pipe liquid coolant lines. Patent
[NASA-CASE-MFS-14114-2] c 09 N71-24807

Cryogenic cooling system. Patent
[NASA-CASE-NPO-10467] c 23 N71-26654

Self-adjusting multisegment, deployable, natural circulation radiator. Patent
[NASA-CASE-XHQ-03673] c 33 N71-29046

Heat conductive resiliently compressible structure for space electronics package modules. Patent
[NASA-CASE-MSC-12389] c 33 N71-29052

Method and device for cooling. Patent
[NASA-CASE-HQN-00938] c 33 N71-29053

- Liquid spray cooling method Patent
[NASA-CASE-XLE-00027] c 33 N71-29152
- Radial heat flux transformer
[NASA-CASE-NPO-10828] c 33 N72-17948
- Light shield and cooling apparatus --- high intensity ultraviolet lamp
[NASA-CASE-LAR-10089-1] c 34 N74-23066
- Refrigerated coaxial coupling --- for microwave equipment
[NASA-CASE-NPO-13504-1] c 33 N75-30430
- Rocket chamber and method of making
[NASA-CASE-LEW-11118-2] c 20 N76-14191
- Tubular sublimatory evaporator heat sink
[NASA-CASE-ARC-10912-1] c 34 N77-19353
- Arc control in compact arc lamps
[NASA-CASE-NPO-10870-1] c 33 N77-22386
- Oil cooling system for a gas turbine engine
[NASA-CASE-LEW-12830-1] c 07 N77-23106
- Oil cooling system for a gas turbine engine
[NASA-CASE-LEW-12321-1] c 37 N78-10467
- Closed loop spray cooling apparatus --- for particle accelerator targets
[NASA-CASE-LEW-11981-1] c 31 N78-17237
- Multistation refrigeration system
[NASA-CASE-NPO-13839-1] c 31 N78-25256
- Cooling system for removing metabolic heat from an hermetically sealed spacesuit
[NASA-CASE-ARC-11059-1] c 54 N78-32721
- Heat exchanger --- rocket combustion chambers and cooling systems
[NASA-CASE-LEW-12252-1] c 34 N79-13288
- Closed loop spray cooling apparatus
[NASA-CASE-LEW-11981-2] c 34 N79-20336
- Ozonation of cooling tower waters
[NASA-CASE-NPO-14340-1] c 45 N80-14579
- Heat exchanger and method of making
[NASA-CASE-LEW-12441-3] c 44 N81-24519
- Heat pipe cooled probe
[NASA-CASE-LAR-12588-1] c 44 N81-24525
- Cooling system for high speed aircraft
[NASA-CASE-LAR-12406-1] c 05 N81-26114
- Waveguide cooling system
[NASA-CASE-NPO-15401-1] c 32 N83-27085
- Cooling by conversion of para to ortho-hydrogen
[NASA-CASE-GSC-12770-1] c 25 N83-29324
- Vortex generating flow passage design for increased film cooling effectiveness
[NASA-CASE-LEW-14039-1] c 34 N84-20782
- COORDINATES**
- Mechanical coordinate converter Patent
[NASA-CASE-XNP-00614] c 14 N70-36907
- Lightning tracking system
[NASA-CASE-KSC-10729-1] c 09 N73-32110
- Magnetic heading reference
[NASA-CASE-LAR-11387-2] c 04 N77-19056
- COPOLYMERIZATION**
- Chemical approach for controlling nadamide cure temperature and rate
[NASA-CASE-LEW-13770-1] c 27 N83-13258
- Chemical approach for controlling nadamide cure temperature and rate
[NASA-CASE-LEW-13770-2] c 27 N83-30651
- COPOLYMERS**
- Method of producing alternating ether siloxane copolymers Patent
[NASA-CASE-XMF-02584] c 06 N71-20905
- Dicyanoacetylene polymers Patent
[NASA-CASE-XNP-03250] c 06 N71-23500
- Heat resistant polymers of oxidized styrylphosphine
[NASA-CASE-MSC-14903-3] c 27 N80-24438
- Insoluble polyelectrolyte and ion-exchange hollow fiber impregnated therewith
[NASA-CASE-NPO-13530-1] c 25 N81-17187
- Alkaline battery containing a separator of a cross-linked copolymer of vinyl alcohol and unsaturated carboxylic acid
[NASA-CASE-LEW-13102-1] c 44 N81-29531
- Phthalocyanine polymers
[NASA-CASE-ARC-11413-1] c 27 N83-14275
- COPPER**
- Method for etching copper Patent
[NASA-CASE-XGS-06306] c 17 N71-16044
- Method of plating copper on aluminum Patent
[NASA-CASE-XLA-08966-1] c 17 N71-25903
- Brazing alloy composition
[NASA-CASE-XMF-06053] c 26 N75-27126
- Method for making an aluminum or copper substrate panel for selective absorption of solar energy
[NASA-CASE-MFS-23518-1] c 44 N79-11469
- COPPER ALLOYS**
- Zirconium modified nickel-copper alloy
[NASA-CASE-LEW-12245-1] c 26 N77-20201
- Thin film strain transducer --- for strain monitoring of high altitude balloons
[NASA-CASE-WLP-10055-1] c 35 N82-26632
- COPPER COMPOUNDS**
- Simple method of making photovoltaic junctions Patent
[NASA-CASE-XNP-01960] c 09 N71-23027
- Laser coolant and ultraviolet filter
[NASA-CASE-MFS-20180] c 16 N72-12440
- Brazing alloy
[NASA-CASE-XNP-03878] c 26 N75-27127
- COPPER FLUORIDES**
- Preparation of high purity copper fluoride
[NASA-CASE-LEW-10794-1] c 06 N72-17093
- CORDAGE**
- Method of forming a root cord restrained convolute section
[NASA-CASE-MSC-12398] c 05 N72-20098
- CORE STORAGE**
- Semiconductor-ferroelectric memory device
[NASA-CASE-ERC-10307] c 08 N72-21198
- CORES**
- Method of making rolling element bearings
[NASA-CASE-LEW-11087-2] c 37 N74-15128
- Electromagnetic transducer recording head having a laminated core section and tapered gap
[NASA-CASE-NPO-10711-1] c 35 N77-21392
- Superplastically formed diffusion bonded metallic structure
[NASA-CASE-FRC-11026-1] c 24 N82-24296
- CORK (MATERIALS)**
- Cork-resin ablative insulation for complex surfaces and method for applying the same
[NASA-CASE-MFS-23626-1] c 24 N80-26388
- CORRECTION**
- Doppler frequency spread correction device for multiplex transmissions
[NASA-CASE-XGS-02749] c 07 N69-39978
- CORRELATION**
- Clutter free synthetic aperture radar correlator
[NASA-CASE-NPO-14035-1] c 32 N83-19968
- CORRELATION DETECTION**
- Correlation type phase detector --- with time correlation integrator for frequency multiplexed signals
[NASA-CASE-GSC-11744-1] c 33 N75-26243
- Interferometric locating system
[NASA-CASE-NPO-14173-1] c 04 N80-32359
- CORRELATORS**
- Millimeter wave radiometer for radio astronomy Patent
[NASA-CASE-XNP-09832] c 30 N71-23723
- Digital demodulator-correlator
[NASA-CASE-NPO-13982-1] c 32 N79-14267
- Baseband signal combiner for large aperture antenna array
[NASA-CASE-NPO-14641-1] c 32 N81-29308
- A pipelined digital SAR azimuth correlator using hybrid FFT/transversal-filter
[NASA-CASE-NPO-15519-1] c 32 N82-12298
- Serial data correlator/code translator
[NASA-CASE-KSC-11025-1] c 32 N83-13323
- CORROSION**
- Method of neutralizing the corrosive surface of amine-cured epoxy resins
[NASA-CASE-GSC-12686-1] c 27 N83-34039
- CORROSION PREVENTION**
- Method of coating carbonaceous base to prevent oxidation destruction and coated base Patent
[NASA-CASE-XLA-00284] c 15 N71-16075
- Method of inhibiting stress corrosion cracks in titanium alloys Patent
[NASA-CASE-NPO-10271] c 17 N71-16393
- Controlled glass bead peening Patent
[NASA-CASE-XLA-07390] c 15 N71-18616
- Corrosion resistant beryllium Patent
[NASA-CASE-LEW-10327] c 17 N71-33408
- Prevention of hydrogen embrittlement of high strength steel by hydrazine compositions --- by adding potassium hydroxide to hydrazine
[NASA-CASE-NPO-12122-1] c 24 N76-14203
- Ozonation of cooling tower waters
[NASA-CASE-NPO-14340-1] c 45 N80-14579
- Method of protecting a surface with a silicon-slurry/aluminide coating --- coatings for gas turbine engine blades and vanes
[NASA-CASE-LEW-13343-1] c 27 N82-28441
- Heat pipes containing alkali metal working fluid
[NASA-CASE-LEW-12253-1] c 74 N83-19596
- Method of coating a substrate with a rapidly solidified metal
[NASA-CASE-GSC-12880-1] c 26 N84-20670
- CORROSION RESISTANCE**
- High temperature cobalt-base alloy Patent
[NASA-CASE-XLE-00726] c 17 N71-15644
- Solder flux which leaves corrosion-resistant coating Patent
[NASA-CASE-XNP-03459-2] c 18 N71-15688
- High temperature cobalt-base alloy Patent
[NASA-CASE-XLE-02991] c 17 N71-16025
- Soldering with solder flux which leaves corrosion resistant coating Patent
[NASA-CASE-XNP-03459] c 15 N71-21078
- Method of making bearing material
[NASA-CASE-LEW-11930-3] c 24 N80-33482
- Corrosion resistant thermal barrier coating --- protecting gas turbines and other engine parts
[NASA-CASE-LEW-13088-1] c 26 N81-25188
- Sandblasting nozzle
[NASA-CASE-NPO-13823-1] c 37 N81-25371
- Covering solid, film cooled surfaces with a duplex thermal barrier coating
[NASA-CASE-LEW-13450-1] c 31 N83-35177
- Corrosion resistant coating
[NASA-CASE-NPO-15928-1] c 26 N84-12289
- CORRUGATED PLATES**
- Superplastically formed diffusion bonded metallic structure
[NASA-CASE-FRC-11026-1] c 24 N82-24296
- Curved cap corrugated sheet
[NASA-CASE-LAR-12884-1] c 31 N83-29446
- CORRUGATING**
- Collapsible corrugated horn antenna
[NASA-CASE-LAR-11745-1] c 32 N80-29539
- Superplastically formed diffusion bonded metallic structure
[NASA-CASE-FRC-11026-1] c 24 N82-24296
- COSINE SERIES**
- Electro-mechanical sine/cosine generator
[NASA-CASE-LAR-10503-1] c 09 N72-21248
- Function generator for synthesizing complex vibration mode patterns
[NASA-CASE-LAR-10310-1] c 10 N73-20253
- COSMIC DUST**
- Cosmic dust sensor
[NASA-CASE-GSC-10503-1] c 14 N72-20381
- Cosmic dust or other similar outer space particles impact location detector
[NASA-CASE-GSC-11291-1] c 25 N72-33696
- Impact position detector for outer space particles
[NASA-CASE-GSC-11829-1] c 35 N75-27331
- Cosmic dust analyzer
[NASA-CASE-MSC-13802-2] c 35 N76-15431
- COST ANALYSIS**
- Low cost solar energy collection system
[NASA-CASE-NPO-13579-1] c 44 N78-17460
- COST REDUCTION**
- An improved synthesis of 2,4,8,10-tetroxaspiro (5.5) undecane
[NASA-CASE-ARC-11243-2] c 23 N80-31472
- COUCHES**
- Shock absorbing support and restraint means Patent
[NASA-CASE-XMS-01240] c 05 N70-35152
- Energy absorbing structure Patent Application
[NASA-CASE-MSC-12279-1] c 15 N70-35679
- Articulated multiple couch assembly Patent
[NASA-CASE-MSC-11253] c 05 N71-12343
- Collapsible Apollo couch
[NASA-CASE-MSC-13140] c 05 N72-11085
- COULOMETERS**
- Electrochemical coulometer and method of forming same Patent
[NASA-CASE-XGS-05434] c 03 N71-20491
- Coulometer and third electrode battery charging circuit Patent
[NASA-CASE-GSC-10487-1] c 03 N71-24719
- State-of-charge coulometer
[NASA-CASE-NPO-15759-1] c 35 N82-26630
- COUNTERS**
- Counter Patent
[NASA-CASE-XNP-06234] c 10 N71-27137
- Electronic strain-level counter
[NASA-CASE-LAR-10756-1] c 32 N73-26910
- Electrochemical detection device --- for use in microbiology
[NASA-CASE-LAR-11922-1] c 25 N79-24073
- Redundant operation of counter modules
[NASA-CASE-NPO-14162-1] c 60 N81-15706
- Film advance indicator
[NASA-CASE-LAR-12474-1] c 35 N82-26628
- Apparatus and process for microbial detection and enumeration
[NASA-CASE-LAR-12709-1] c 35 N82-28604
- COUNTING CIRCUITS**
- Scanning aspect sensor employing an apertured disc and a commutator
[NASA-CASE-XGS-08266] c 14 N69-27432
- Ring counter
[NASA-CASE-XGS-03095] c 09 N69-27463
- Relay binary circuit Patent
[NASA-CASE-XMF-00421] c 09 N70-34502
- Reversible ring counter employing cascaded single SCR stages Patent
[NASA-CASE-XGS-01473] c 09 N71-10673

Meteoroid sensing apparatus having a coincidence network connected to a pair of capacitors Patent
[NASA-CASE-XLE-01246] c 14 N71-10797

Magnetic counter Patent
[NASA-CASE-XNP-08836] c 09 N71-12515

Synchronous counter Patent
[NASA-CASE-XGS-02440] c 08 N71-19432

Digital cardiachometer system Patent
[NASA-CASE-XMS-02399] c 05 N71-22896

Counter and shift register Patent
[NASA-CASE-XNP-01753] c 08 N71-22897

Noninterruptible digital counting system Patent
[NASA-CASE-XNP-09759] c 08 N71-24891

Frequency measurement by coincidence detection with standard frequency
[NASA-CASE-MSC-14649-1] c 33 N76-16331

Redundant operation of counter modules
[NASA-CASE-NPO-14162-1] c 60 N81-15706

COUPLING

Coupling for linear shaped charge Patent
[NASA-CASE-XLA-00189] c 33 N70-36846

Expandable support means
[NASA-CASE-NPO-11059] c 15 N72-17454

Coupled cavity traveling wave tube with velocity tapering
[NASA-CASE-LEW-12296-1] c 33 N82-26568

Electrical power generating system
[NASA-CASE-MFS-25302-1] c 33 N83-28319

COUPLING CIRCUITS

Flipflop interrogator and bi-polar current driver Patent
[NASA-CASE-XGS-03058] c 10 N71-19547

Antenna array at focal plane of reflector with coupling network for beam switching Patent
[NASA-CASE-GSC-10220-1] c 07 N71-27233

Phase modulator Patent
[NASA-CASE-MSC-13201-1] c 07 N71-28429

Signal path series step biased multidevice high efficiency amplifier Patent
[NASA-CASE-GSC-10668-1] c 07 N71-28430

Automatic quadrature control and measuring system --- using optical coupling circuitry
[NASA-CASE-MFS-21660-1] c 35 N74-21017

Diode-quad bridge circuit means
[NASA-CASE-ARC-10364-3] c 33 N75-19520

Non-contacting power transfer device
[NASA-CASE-GSC-12595-1] c 33 N82-24422

COUPLINGS

Coupling device
[NASA-CASE-XMS-07846-1] c 09 N69-21927

Tubular coupling having frangible connecting means
[NASA-CASE-XLA-02854] c 15 N69-27490

Quick release separation mechanism Patent
[NASA-CASE-XLA-01441] c 15 N70-41679

Indexed keyed connection Patent
[NASA-CASE-XMS-02532] c 15 N70-41808

Quick attach and release fluid coupling assembly Patent
[NASA-CASE-XKS-01985] c 15 N71-10782

Ratchet mechanism Patent
[NASA-CASE-MFS-12805] c 15 N71-17805

Split nut separation system Patent
[NASA-CASE-NPO-06914] c 15 N71-21489

Duct coupling for single-handed operation Patent
[NASA-CASE-MFS-20395] c 15 N71-24903

Isolation coupling arrangement for a torque measuring system
[NASA-CASE-XLA-04897] c 15 N72-22482

Refrigerated coaxial coupling --- for microwave equipment
[NASA-CASE-NPO-13504-1] c 33 N75-30430

Opto-mechanical subsystem with temperature compensation through isothermal design
[NASA-CASE-GSC-12059-1] c 35 N77-27366

Prosthesis coupling
[NASA-CASE-KSC-11069-1] c 52 N79-26772

Coupling device for moving vehicles
[NASA-CASE-GSC-12322-1] c 37 N80-14398

Device for coupling a first vehicle to a second vehicle
[NASA-CASE-GSC-12429-1] c 37 N81-14320

Micro-fluid exchange coupling apparatus
[NASA-CASE-ARC-11114-1] c 51 N81-14605

Reusable captive blind fastener
[NASA-CASE-MSC-18742-1] c 37 N82-26673

Connection system
[NASA-CASE-MSC-20319-1] c 37 N82-31689

COVARIANCE

Auto covariance computer
[NASA-CASE-LAR-12968-1] c 35 N83-34273

COVERINGS

Apparatus for ejection of an instrument cover
[NASA-CASE-XMF-04132] c 15 N69-27502

COWLINGS

Thrust reverser for a long duct fan engine --- for turbofan engines
[NASA-CASE-LEW-13199-1] c 07 N82-26293

CRACKING (FRACTURING)

Method of inhibiting stress corrosion cracks in titanium alloys Patent
[NASA-CASE-NPO-10271] c 17 N71-16393

TV fatigue crack monitoring system
[NASA-CASE-LAR-11490-1] c 39 N78-16387

CRASH LANDING

Aircraft-mounted crash-activated transmitter device
[NASA-CASE-MFS-16609-3] c 03 N76-32140

CREEP RUPTURE STRENGTH

Nickel-base alloy containing Mo-W-Al-Cr-Ta-Zr-C-Nb-B Patent
[NASA-CASE-XLE-02082] c 17 N71-16026

CRITICAL EXPERIMENTS

Gas liquefaction and dispensing apparatus Patent
[NASA-CASE-NPO-10070] c 15 N71-27372

CRITICAL LOADING

Portable 90 deg proof loading device
[NASA-CASE-MSC-20250-1] c 37 N83-29707

CRITICAL TEMPERATURE

Stable superconducting magnet --- high current levels below critical temperature
[NASA-CASE-XMF-05373-1] c 33 N79-21264

CROSS CORRELATION

Cross correlation anomaly detection system
[NASA-CASE-NPO-13283] c 38 N78-17395

Method and apparatus for calibrating the ionosphere and application to surveillance of geophysical events
[NASA-CASE-NPO-15430-1] c 46 N82-26890

CROSS FLOW

Aerodynamic side-force alleviator means
[NASA-CASE-LAR-12326-1] c 02 N81-14968

CROSS POLARIZATION

Adaptive polarization separation
[NASA-CASE-LAR-12196-1] c 33 N81-26358

CROSS SECTIONS

Discharge cell for optogalvanic spectroscopy having orthogonal relationship between the probe laser and discharge axis
[NASA-CASE-NPO-16271-1] c 36 N84-15537

CROSSED FIELDS

Plasma accelerator Patent
[NASA-CASE-XLA-00675] c 25 N70-33267

Energy conversion apparatus Patent
[NASA-CASE-XLE-00212] c 03 N70-34134

Crossed-field MHD plasma generator/accelerator Patent
[NASA-CASE-XLA-03374] c 25 N71-15562

CROSSLINKING

Trifunctional alcohol
[NASA-CASE-NPO-10714] c 06 N69-31244

Trimerization of aromatic nitriles
[NASA-CASE-LEW-12053-1] c 27 N78-15276

Polymeric foams from cross-linkable poly-n-arylenebenzimidazoles
[NASA-CASE-ARC-11008-1] c 27 N78-31232

In situ self cross-linking of polyvinyl alcohol battery separators
[NASA-CASE-LEW-12972-1] c 44 N79-25481

Catalytic trimerization of aromatic nitriles and triaryl-s-triazine ring cross-linked high temperature resistant polymers and copolymers made thereby
[NASA-CASE-LEW-12053-2] c 27 N79-28307

Method of cross-linking polyvinyl alcohol and other water soluble resins
[NASA-CASE-LEW-13103-1] c 27 N80-32516

Thermoset-thermoplastic aromatic polyamides
[NASA-CASE-LAR-12723-1] c 27 N81-15107

Process for the preparation of fluorine containing crosslinked elastomeric polytriazine and product so produced
[NASA-CASE-ARC-11248-1] c 27 N81-17259

The 1,2,4-oxadiazole elastomers --- heat resistant polymers
[NASA-CASE-ARC-11253-1] c 27 N81-17262

In-situ cross linking of polyvinyl alcohol --- application to battery separator films
[NASA-CASE-LEW-13135-2] c 27 N81-24257

Cross-linked polyvinyl alcohol and method of making same
[NASA-CASE-LEW-13101-2] c 23 N81-29160

Alkaline battery containing a separator of a cross-linked copolymer of vinyl alcohol and unsaturated carboxylic acid
[NASA-CASE-LEW-13102-1] c 44 N81-29531

Polyvinyl alcohol cross-linked with two aldehydes
[NASA-CASE-LEW-13504-1] c 25 N83-13188

Elastomer coated filler and composites thereof comprising at least 60% by weight of a hydrated filler and an elastomer containing an acid substituent
[NASA-CASE-NPO-14857-1] c 27 N83-19900

Low temperature cross linking polyimides
[NASA-CASE-LEW-12876-2] c 27 N83-29392

Mixed polyvalent-monovalent metal coating for carbon-graphite fibers
[NASA-CASE-NPO-14987-1] c 24 N83-33950

Polyphenylquinoxalines containing pendant phenylethynyl and ethynyl groups --- for thermoplastic resins
[NASA-CASE-LAR-12838-1] c 27 N83-34040

CRUCIBLES

Evaporant holder
[NASA-CASE-XLA-03105] c 15 N69-27483

CRUCIFORM WINGS

Solar powered aircraft
[NASA-CASE-LAR-12615-1] c 05 N84-12154

CRUDE OIL

Decontamination of petroleum products Patent
[NASA-CASE-XNP-03835] c 06 N71-23499

Crude oil desulfurization
[NASA-CASE-NPO-14542-1] c 25 N82-23282

CRUSTAL FRACTURES

System for real-time crustal deformation monitoring
[NASA-CASE-NPO-14124-1] c 46 N80-14603

CRYOGENIC COOLING

Support assembly for cryogenically coolable low-noise choke waveguide
[NASA-CASE-NPO-14253-1] c 32 N80-32605

Low cost cryostat
[NASA-CASE-NPO-14513-1] c 35 N81-14287

Stirling cycle cryogenic cooler --- magnetically suspended pistons
[NASA-CASE-GSC-12697-1] c 31 N82-11312

Stirling cycle cryogenic cooler
[US-PATENT-4,389,849] c 44 N83-28574

Propulsion apparatus and method using boil-off gas from a cryogenic liquid --- controlling spacecraft attitude and drag
[NASA-CASE-MFS-25946-1] c 20 N84-15183

CRYOGENIC EQUIPMENT

Refrigeration apparatus
[NASA-CASE-NPO-10309] c 15 N69-23190

Piping arrangement through a double chamber structure
[NASA-CASE-XNP-08882] c 15 N69-39935

Method and apparatus for cryogenic wire stripping Patent
[NASA-CASE-MFS-10340] c 15 N71-17628

Dual solid cryogens for spacecraft refrigeration Patent
[NASA-CASE-GSC-10188-1] c 23 N71-24725

Valving device for automatic refilling in cryogenic liquid systems
[NASA-CASE-NPO-11177] c 15 N72-17453

Dual stage check valve
[NASA-CASE-MSC-13587-1] c 15 N73-30459

Heat operated cryogenic electrical generator
[NASA-CASE-NPO-13303-1] c 20 N75-24837

Cryostat system for temperatures on the order of 2 deg K or less
[NASA-CASE-NPO-13459-1] c 31 N77-10229

Device for tensioning test specimens within an hermetically sealed chamber
[NASA-CASE-MFS-23281-1] c 35 N77-22450

Multistage refrigeration system
[NASA-CASE-NPO-13839-1] c 31 N78-25256

System for and method of freezing biological tissue
[NASA-CASE-GSC-12173-1] c 51 N79-10694

Shock isolator for operating a diode laser on a closed-cycle refrigerator
[NASA-CASE-GSC-12297-1] c 37 N79-28549

Low temperature latching solenoid
[NASA-CASE-MSC-18108-1] c 33 N82-11357

Magnetically actuated compressor
[NASA-CASE-GSC-12799-1] c 37 N83-20153

Resilient seal ring assembly with spring means applying force to wedge member --- cryogenic applications
[NASA-CASE-MFS-25678-1] c 37 N84-11497

CRYOGENIC FLUID STORAGE

Apparatus for transferring cryogenic liquids Patent
[NASA-CASE-XLE-00345] c 15 N70-38020

Cryogenic storage system Patent
[NASA-CASE-XMS-04390] c 31 N70-41871

Techniques for insulating cryogenic fuel containers Patent
[NASA-CASE-XLA-01967] c 31 N70-42015

Method of making a filament-wound container Patent
[NASA-CASE-XLE-03803-2] c 15 N71-17651

Cryogenic insulation system Patent
[NASA-CASE-XLE-04222] c 23 N71-22881

Panelized high performance multilayer insulation Patent
[NASA-CASE-MFS-14023] c 33 N71-25351

Cryogenic thermal insulation Patent
[NASA-CASE-XMF-05046] c 33 N71-28892

Zero gravity shadow shield aligner
[NASA-CASE-KSC-10622-1] c 31 N72-21893

Heater-mixer for stored fluids
[NASA-CASE-ARC-10442-1] c 35 N74-15093

Low heat leak connector for cryogenic system
[NASA-CASE-XLE-02367-1] c 31 N79-21225

Cryogenic container compound suspension strap
[NASA-CASE-ARC-11157-1] c 37 N80-18393

- Cryogenic insulation strength and bond tester
[NASA-CASE-MFS-25910-1] c 27 N84-11297
- CRYOGENIC FLUIDS**
Cryogenic apparatus for measuring the intensity of magnetic fields
[NASA-CASE-XAC-02407] c 14 N69-27423
Venting vapor apparatus Patent
[NASA-CASE-XLE-00288] c 15 N70-34247
Conical valve plug Patent
[NASA-CASE-XLE-00715] c 15 N70-34859
Fluid coupling Patent
[NASA-CASE-XLE-00397] c 15 N70-36492
Densitometer Patent
[NASA-CASE-XLE-00688] c 14 N70-41330
Cryogenic connector for vacuum use Patent
[NASA-CASE-XGS-02441] c 15 N70-41629
Liquid flow sight assembly Patent
[NASA-CASE-XLE-02998] c 14 N70-42074
Automatic thermal switch Patent
[NASA-CASE-XNP-03796] c 23 N71-15467
Zero gravity separator Patent
[NASA-CASE-XLE-00586] c 15 N71-15968
Apparatus for measuring thermal conductivity Patent
[NASA-CASE-XGS-01052] c 14 N71-15992
Process of forming particles in a cryogenic path Patent
[NASA-CASE-NPO-10250] c 23 N71-16212
Superconducting alternator Patent
[NASA-CASE-XLE-02823] c 09 N71-23443
Flow angle sensor and read out system Patent
[NASA-CASE-XLE-04503] c 14 N71-24864
Geysering inhibitor for vertical cryogenic transfer pipe
[NASA-CASE-KSC-10615] c 15 N73-12486
Magnetocaloric pump --- for cryogenic fluids
[NASA-CASE-LEW-11672-1] c 37 N74-27904
Cryogenic liquid sensor
[NASA-CASE-NPO-10619-1] c 35 N77-21393
- CRYOGENIC GYROSCOPES**
Cryogenic gyroscope housing --- with annular disks for gas spin-up
[NASA-CASE-MFS-21136-1] c 35 N74-18323
- CRYOGENIC MAGNETS**
Superconducting alternator
[NASA-CASE-XLE-02824] c 03 N69-39890
- CRYOGENIC ROCKET PROPELLANTS**
Quick attach and release fluid coupling assembly Patent
[NASA-CASE-XKS-01985] c 15 N71-10782
Hot wire liquid level detector for cryogenic fluids Patent
[NASA-CASE-XLE-00454] c 23 N71-17802
Automatic pump Patent
[NASA-CASE-XNP-04731] c 15 N71-24042
- CRYOGENIC STORAGE**
Insulation system Patent
[NASA-CASE-XLE-02647] c 18 N71-23658
Filament wound container Patent
[NASA-CASE-XLE-03803] c 15 N71-23816
- CRYOGENIC WIND TUNNELS**
Continuous self-locking spiral wound seal --- for maintaining pressure between chambers in cryogenic wind tunnels
[NASA-CASE-LAR-12315-1] c 37 N82-24490
- CRYOGENICS**
Low temperature aluminum alloy Patent
[NASA-CASE-XMF-02786] c 17 N71-20743
Cryogenic cooling system Patent
[NASA-CASE-NPO-10467] c 23 N71-26654
Germanium coated microbridge and method
[NASA-CASE-MFS-23274-1] c 33 N78-13320
Dielectric-loaded waveguide circulator for cryogenically cooled and cascaded maser waveguide structures
[NASA-CASE-NPO-14254-1] c 36 N80-18372
High toughness-high strength iron alloy
[NASA-CASE-LEW-12542-3] c 26 N80-32484
Multispectral scanner optical system
[NASA-CASE-MSC-18255-1] c 74 N80-33210
Polymeric compositions and their method of manufacture --- forming filled polymer systems using cryogenics
[NASA-CASE-NPO-10424-1] c 27 N81-24258
- CRYOLITE**
Ultraviolet filter
[NASA-CASE-XNP-02340] c 23 N69-24332
- CRYOSTATS**
Low temperature flexure fatigue cryostat Patent
[NASA-CASE-XMF-02964] c 14 N71-17659
Horizontal cryostat for fatigue testing Patent
[NASA-CASE-XMF-10968] c 14 N71-24234
Heater-mixer for stored fluids
[NASA-CASE-ARC-10442-1] c 35 N74-15093
Cryostat system for temperatures on the order of 2 deg K or less
[NASA-CASE-NPO-13459-1] c 31 N77-10229
Low cost cryostat
[NASA-CASE-NPO-14513-1] c 35 N81-14287
- CRYOTRAPPING**
Atomic hydrogen storage --- cryotrapping and magnetic field strength
[NASA-CASE-LEW-12081-2] c 28 N80-20402
- CRYSTAL DEFECTS**
Method of controlling defect orientation in silicon crystal ribbon growth
[NASA-CASE-NPO-13918-1] c 76 N79-11920
- CRYSTAL FILTERS**
Infrared tunable laser
[NASA-CASE-ARC-10463-1] c 09 N73-32111
Partial polarizer filter
[NASA-CASE-GSC-12225-1] c 74 N79-14891
Inductorless narrow-band filter/amplifier
[NASA-CASE-GSC-12410-1] c 33 N79-24260
- CRYSTAL GROWTH**
Apparatus for producing high purity silicon carbide crystals Patent
[NASA-CASE-XLA-02057] c 26 N70-40015
Method of producing crystalline materials
[NASA-CASE-NPO-10440] c 15 N72-21466
Vapor phase growth of groups 3-5 compounds by hydrogen chloride transport of the elements
[NASA-CASE-LAR-11144-1] c 25 N75-26043
Process for fabricating SiC semiconductor devices
[NASA-CASE-LEW-12094-1] c 76 N76-25049
Method of crystallization --- in gravity-free environments
[NASA-CASE-MFS-23001-1] c 76 N77-32919
Pressure transducer --- using a monomeric charge transfer complex sensor
[NASA-CASE-NPO-11150] c 35 N78-17359
Method of controlling defect orientation in silicon crystal ribbon growth
[NASA-CASE-NPO-13918-1] c 76 N79-11920
Growth of silicon carbide crystals on a seed while pulling silicon crystals from a melt
[NASA-CASE-NPO-13969-1] c 76 N79-23798
Method of mitigating titanium impurities effects in p-type silicon material for solar cells
[NASA-CASE-NPO-14635-1] c 44 N80-24741
Means for growing ribbon crystals without subjecting the crystals to thermal shock-induced strains
[NASA-CASE-NPO-14298-1] c 76 N80-32244
Method of growing a ribbon crystal particularly suited for facilitating automated control of ribbon width
[NASA-CASE-NPO-14295-1] c 76 N80-32245
Apparatus for use in the production of ribbon-shaped crystals from a silicon melt
[NASA-CASE-NPO-14297-1] c 33 N81-19389
Method and apparatus for growth of crystals by pressure reduction of supercritical or subcritical solution
[NASA-CASE-NPO-15772-1] c 76 N82-23031
Process and apparatus for growing a crystal ribbon --- for use in photovoltaic cells
[NASA-CASE-NPO-15629-1] c 44 N82-26779
Total immersion crystal growth --- using a melt covered with an encapsulating fluid
[NASA-CASE-NPO-15800-1] c 76 N83-15149
Ampoule sealing apparatus and process --- for housing a semiconductor growth charge under vacuum
[NASA-CASE-LAR-12847-1] c 33 N83-16633
Method of preparing radially homogeneous mercury cadmium telluride crystals
[NASA-CASE-MFS-25786-1] c 76 N83-18533
Controlled in situ etch-back
[NASA-CASE-NPO-15625-1] c 76 N83-20789
Method and apparatus for supercooling and solidifying substances
[NASA-CASE-MFS-25242-1] c 35 N83-29650
Method for growing low defect, high purity crystalline layers --- photovoltaic cells
[NASA-CASE-NPO-15813-1] c 76 N83-30269
Method and apparatus for minimizing convection during crystal growth from solution
[NASA-CASE-NPO-15811-1] c 76 N84-12968
- CRYSTAL LATTICES**
Apparatus for use in examining the lattice of a semiconductor wafer by X-ray diffraction
[NASA-CASE-MFS-23315-1] c 76 N78-24950
Crystal cleaving machine
[NASA-CASE-GSC-12584-1] c 37 N82-32730
- CRYSTAL OPTICS**
Optical crystal temperature gauge with fiber optic connections
[NASA-CASE-MSC-18627-1] c 74 N82-30071
- CRYSTAL OSCILLATORS**
Microbalance including crystal oscillators for measuring contaminants in a gas system Patent
[NASA-CASE-NPO-10144] c 14 N71-17701
Passive intrusion detection system
[NASA-CASE-NPO-13804-1] c 33 N80-23559
Automatic oscillator frequency control system
[NASA-CASE-GSC-12804-1] c 33 N83-35228
- CRYSTAL RECTIFIERS**
Turn on transient limiter Patent
[NASA-CASE-GSC-10413] c 10 N71-26531
- CRYSTAL STRUCTURE**
Method of growing composites of the type exhibiting the Soret effect --- improved structure of eutectic alloy crystals
[NASA-CASE-MFS-22926-1] c 24 N77-27187
- CRYSTALLINITY**
Crystalline polyimides --- reinforcing fibers for high temperature composites and adhesives as well as flame retardation
[NASA-CASE-LAR-12099-1] c 27 N80-16158
- CRYSTALLIZATION**
Method of crystallization --- in gravity-free environments
[NASA-CASE-MFS-23001-1] c 76 N77-32919
- CRYSTALS**
Brushless direct current tachometer Patent
[NASA-CASE-MFS-20385] c 09 N71-24904
Method and apparatus for slicing crystals
[NASA-CASE-GSC-12291-1] c 76 N80-18951
Workpiece positioning vise
[NASA-CASE-GSC-12762-1] c 37 N82-29604
Crystal cleaving machine
[NASA-CASE-GSC-12584-1] c 37 N82-32730
- CUBIC LATTICES**
Stabilized lanthanum sulphur compounds --- thermoelectric materials
[NASA-CASE-NPO-16135-1] c 25 N83-24572
- CUES**
Helmet weight simulator
[NASA-CASE-LAR-12320-1] c 54 N81-27806
- CUFFS**
Logic-controlled occlusive cuff system
[NASA-CASE-MSC-14836-1] c 52 N82-11770
Prosthetic occlusive device for an internal passageway
[NASA-CASE-MFS-25740-1] c 52 N84-11744
- CULTURE TECHNIQUES**
Variable angle tube holder
[NASA-CASE-LAR-10507-1] c 11 N72-25284
Automatic inoculating apparatus --- includes movable carriage, drive motor, and swabbing motor
[NASA-CASE-LAR-11074-1] c 51 N75-13502
Automatic microbial transfer device
[NASA-CASE-LAR-11354-1] c 35 N75-27330
Electrochemical detection device --- for use in microbiology
[NASA-CASE-LAR-11922-1] c 25 N79-24073
Indirect microbial detection
[NASA-CASE-LAR-12520-1] c 51 N81-28698
Enhancement of in vitro guayule propagation
[NASA-CASE-NPO-15213-1] c 51 N83-17045
Method for detecting coliform organisms
[NASA-CASE-ARC-11322-1] c 51 N83-28849
- CURIE TEMPERATURE**
Manganese bismuth films with narrow transfer characteristics for Curie-point switching
[NASA-CASE-NPO-11336-1] c 76 N79-16678
- CURING**
Reaction cured glass and glass coatings
[NASA-CASE-ARC-11051-1] c 27 N78-32260
Ambient cure polyimide foams --- thermal resistant foams
[NASA-CASE-ARC-11170-1] c 27 N79-11215
Curing agent for polyepoxides and epoxy resins and composites cured therewith --- preventing carbon fiber release
[NASA-CASE-LEW-13226-1] c 27 N81-17260
Chemical approach for controlling nadamide cure temperature and rate
[NASA-CASE-LEW-13770-1] c 27 N83-13258
Method of neutralizing the corrosive surface of amine-cured epoxy resins
[NASA-CASE-GSC-12686-1] c 27 N83-34039
Fluoroether modified epoxy composites
[NASA-CASE-ARC-11418-1] c 24 N84-11213
Method and technique for installing light-weight, fragile, high-temperature fiber insulation
[NASA-CASE-MSC-16934-3] c 24 N84-16262
Process for improving moisture resistance of epoxy resins by addition of cobalt ions --- potential applications to composite matrix resins, adhesives, and casting resins for aerospace utilization
[NASA-CASE-LAR-12320-1] c 27 N84-20701
- CURRENT AMPLIFIERS**
Multi-channel temperature measurement amplification system --- solar heating systems
[NASA-CASE-MFS-23775-1] c 44 N82-16474
Tuned analog network
[NASA-CASE-GSC-12650-1] c 33 N84-14421
A dc to dc converter
[NASA-CASE-MFS-25430-1] c 33 N84-16453

CURRENT CONVERTERS (AC TO DC)

Simplified dc to dc converter
[NASA-CASE-LEW-13495-1] c 33 N82-24432

CURRENT DENSITY

Solid state switch
[NASA-CASE-XNP-09228] c 09 N69-27500
Method and apparatus for sputtering utilizing an
apertured electrode and a pulsed substrate bias
[NASA-CASE-LEW-10920-1] c 17 N73-24569
Stable superconducting magnet --- high current levels
below critical temperature
[NASA-CASE-XMF-05373-1] c 33 N79-21264
Catalyst surfaces for the chromous/chromic redox
couple
[NASA-CASE-LEW-13148-2] c 44 N81-29524

CURRENT DISTRIBUTION

Connector - Electrical
[NASA-CASE-XLA-01288] c 09 N69-21470
Electrostatic ion rocket engine Patent
[NASA-CASE-XLE-02066] c 28 N71-15661
Reversible current control apparatus Patent
[NASA-CASE-XLA-09371] c 10 N71-18724
Polarity sensitive circuit Patent
[NASA-CASE-XNP-00952] c 10 N71-23271
Load insensitive electrical device --- power converters
for supplying direct current at one voltage from a source
at another voltage
[NASA-CASE-XER-11046-2] c 33 N74-22864

CURRENT REGULATORS

Apparatus for ballasting high frequency transistors
[NASA-CASE-XGS-05003] c 09 N69-24318
Baseline stabilization system for ionization detector
Patent
[NASA-CASE-XNP-03128] c 10 N70-41991
Magnetic core current steering commutator Patent
[NASA-CASE-NPO-10201] c 08 N71-18694
Increasing efficiency of switching type regulator circuits
Patent
[NASA-CASE-XMS-09352] c 09 N71-23316
Saturation current protection apparatus for saturable
core transformers Patent
[NASA-CASE-ERC-10075] c 09 N71-24800
Drive circuit for minimizing power consumption in
inductive load Patent
[NASA-CASE-NPO-10716] c 09 N71-24892
Turn on transient limiter Patent
[NASA-CASE-GSC-10413] c 10 N71-26531
Current regulating voltage divider
[NASA-CASE-MFS-20935] c 09 N71-34212
Ripple indicator
[NASA-CASE-KSC-10162] c 09 N72-11225
Inrush current limiter
[NASA-CASE-GSC-11789-1] c 33 N77-14333
Circuit for automatic load sharing in parallel converter
modules
[NASA-CASE-NPO-14056-1] c 33 N79-24257
Three phase power factor controller
[NASA-CASE-MFS-25535-1] c 33 N81-12330
Motor power factor controller with a reduced voltage
starter
[NASA-CASE-MFS-25586-1] c 33 N82-11360
Digital control of diode laser for atmospheric
spectroscopy
[NASA-CASE-NPO-16000-1] c 36 N83-24842
Electronic system for high power load control --- solar
arrays
[NASA-CASE-NPO-15358-1] c 33 N83-27126

CURVATURE

Spin forming tubular elbows Patent
[NASA-CASE-XMF-10083] c 15 N71-22723
Two degree inverted flexure
[NASA-CASE-ARC-10345-1] c 15 N73-12488

CURVE FITTING

Voltage-current characteristic simulator Patent
[NASA-CASE-XMS-01554] c 10 N71-10578

CURVED PANELS

Method and apparatus for making curved reflectors
Patent
[NASA-CASE-XLE-08917] c 15 N71-15597
Radio frequency shielded enclosure Patent
[NASA-CASE-XMF-09422] c 07 N71-19436
Roll-up solar array Patent
[NASA-CASE-NPO-10188] c 03 N71-20273
Apparatus for making curved reflectors Patent
[NASA-CASE-XLE-08917-2] c 15 N71-24836
Variable contour securing system
[NASA-CASE-MSC-16270-1] c 37 N78-27423

CURVES (GEOMETRY)

Curved cap corrugated sheet
[NASA-CASE-LAR-12884-1] c 31 N83-29446

CUSHIONS

Seat cushion to provide realistic acceleration cues to
aircraft simulator pilot
[NASA-CASE-LAR-12149-2] c 09 N79-31228
Fire blocking systems for aircraft seat cushions
[NASA-CASE-ARC-11423-1] c 03 N83-17525

Hot melt adhesive attachment pad
[NASA-CASE-LAR-12894-1] c 27 N83-34044

CUTTERS

Aligning and positioning device Patent
[NASA-CASE-XMS-04178] c 15 N71-22798
Weld preparation machine Patent
[NASA-CASE-XKS-07953] c 15 N71-26134
Microcircuit negative cutter
[NASA-CASE-XLA-09843] c 15 N72-27485
Insert facing tool --- manually operated cutting tool for
forming studs in honeycomb material
[NASA-CASE-MFS-21485-1] c 37 N74-25968
Grinding arrangement for ball nose milling cutters
[NASA-CASE-LAR-10450-1] c 37 N74-27905
Ophthalmic liquification pump
[NASA-CASE-LEW-12051-1] c 52 N75-33640
Coal-shale interface detection
[NASA-CASE-MFS-23720-3] c 43 N79-25443
System for slicing silicon wafers
[NASA-CASE-NPO-14406-1] c 37 N80-29703
Tubing and cable cutting tool
[NASA-CASE-LAR-12786-1] c 37 N82-20545
Open ended tubing cutters
[NASA-CASE-MSC-18538-1] c 37 N82-26672
Improved ingot slicing machine
[NASA-CASE-NPO-15483-1] c 37 N82-28642

CUTTING

Ellipsograph for pantograph Patent
[NASA-CASE-XLA-03102] c 14 N71-21079
Precision alignment apparatus for cutting a workpiece
[NASA-CASE-LAR-11658-1] c 37 N77-14478
Tubing and cable cutting tool
[NASA-CASE-LAR-12786-1] c 37 N82-20545
Explosively activated egress area
[NASA-CASE-LAR-12624-1] c 01 N83-35992

CYANATES

Catalysts for polyimide foams from aromatic isocyanates
and aromatic dianhydrides --- flame retardant foams
[NASA-CASE-ARC-11107-1] c 25 N80-16116

CYANO COMPOUNDS

Process for preparing phthalocyanine polymers
[NASA-CASE-ARC-11511-1] c 23 N84-16259

CYCLES

Pneumatic system for controlling and actuating
pneumatic cyclic devices
[NASA-CASE-XMS-04843] c 03 N69-21469
Feedback shift register with states decomposed into
cycles of equal length
[NASA-CASE-NPO-11082] c 08 N72-22167

CYCLIC ACCELERATORS

Cyclical bi-directional rotary actuator
[NASA-CASE-GSC-11883-1] c 37 N77-19458

CYCLIC COMPOUNDS

Carboranylcydriphosphazenes and their polymers ---
thermal insulation
[NASA-CASE-ARC-11176-1] c 27 N82-18389

CYCLIC HYDROCARBONS

Intumescent composition, foamed product prepared
therewith, and process for making same
[NASA-CASE-ARC-10304-1] c 18 N73-26572

CYCLIC LOADS

Automatic fatigue test temperature programmer Patent
[NASA-CASE-XLA-02059] c 33 N71-24276
Low cycle fatigue testing machine
[NASA-CASE-LAR-10270-1] c 32 N72-25877
Material fatigue testing system
[NASA-CASE-MFS-20673] c 14 N73-20476

CYCLOTRON RADIATION

Targets for producing high purity I-123
[NASA-CASE-LEW-10518-3] c 25 N78-27226

CYCLOTRON RESONANCE

Miniature cyclotron resonance ion source using small
permanent magnet
[NASA-CASE-NPO-14324-1] c 72 N80-27163

CYCLOTRON RESONANCE DEVICES

Miniature cyclotron resonance ion source using small
permanent magnet
[NASA-CASE-NPO-14324-1] c 72 N80-27163
Gyrotron transmitting tube
[NASA-CASE-LEW-13429-1] c 33 N83-31952

CYLINDRICAL ANTENNAS

Variable beamwidth antenna --- with multiple beam,
variable feed system
[NASA-CASE-GSC-11862-1] c 32 N76-18295

CYLINDRICAL BODIES

Apparatus for scanning the surface of a cylindrical
body
[NASA-CASE-NPO-11861-1] c 36 N74-20009
Aerodynamic side-force alleviator means
[NASA-CASE-LAR-12326-1] c 02 N81-14968

CYLINDRICAL CHAMBERS

Modified spiral wound retaining ring
[NASA-CASE-LAR-12361-1] c 37 N83-19091

CYLINDRICAL SHELLS

Variable length strut with longitudinal compliance and
locking capability --- constructing truss and beam structures
in space and interconnecting an orbit transfer vehicle and
a payload
[NASA-CASE-MFS-25907-1] c 37 N83-31019

CYSTS

Coupling apparatus for ultrasonic medical diagnostic
system
[NASA-CASE-NPO-13935-1] c 52 N79-14751

CZOCHEWALSKI METHOD

Electromigration process for the purification of molten
silicon during crystal growth
[NASA-CASE-NPO-14831-1] c 76 N82-30105

D

DAMAGE

Method of repairing surface damage to porous refractory
substrates --- space shuttle orbiter tiles
[NASA-CASE-MSC-18736-1] c 24 N83-13172

DAMPERS (VALVES)

Multiple plate hydrostatic viscous damper
[NASA-CASE-LEW-13445-2] c 37 N83-17883

DAMPING

Dynamic precession damper for spin stabilized vehicles
Patent
[NASA-CASE-XLA-01989] c 21 N70-34295
Slosh suppressing device and method Patent
[NASA-CASE-XMF-00658] c 12 N70-38997
Attitude control and damping system for spacecraft
Patent
[NASA-CASE-XLA-02551] c 21 N71-21708
Passive caging mechanism Patent
[NASA-CASE-GSC-10306-1] c 15 N71-24694
Nutation damper
[NASA-CASE-GSC-11205-1] c 15 N73-25513
Parasitic suppressing circuit
[NASA-CASE-ERC-10403-1] c 10 N73-26228
Damping seal for turbomachinery
[NASA-CASE-MFS-25842-1] c 37 N83-26080

DATA ACQUISITION

Analog-to-digital conversion system Patent
[NASA-CASE-XAC-00404] c 08 N70-40125
Position location and data collection system and method
Patent
[NASA-CASE-GSC-10083-1] c 30 N71-16090
Analog signal integration and reconstruction system
Patent
[NASA-CASE-NPO-10344] c 10 N71-26544
Data transfer system Patent
[NASA-CASE-NPO-12107] c 08 N71-27255
Simultaneous acquisition of tracking data from two
stations
[NASA-CASE-NPO-13292-1] c 32 N75-15854
Contour detector and data acquisition system for the
left ventricular outline
[NASA-CASE-ARC-10885-1] c 52 N79-10724

DATA COLLECTION PLATFORMS

Remote platform power conserving system
[NASA-CASE-GSC-11182-1] c 15 N75-13007

DATA COMPRESSION

Data compression system with a minimum time delay
unit Patent
[NASA-CASE-XNP-08832] c 08 N71-12506
Data compression processor Patent
[NASA-CASE-NPO-10068] c 08 N71-19288
Wide range data compression system Patent
[NASA-CASE-XGS-02612] c 08 N71-19435
Method and apparatus for data compression by a
decreasing slope threshold test
[NASA-CASE-NPO-10769] c 08 N72-11171
Data compression system
[NASA-CASE-NPO-11243] c 07 N72-20154
Gated compressor, distortionless signal limiter
[NASA-CASE-NPO-11820-1] c 32 N74-19788
Space communication system for compressed data with
a concatenated Reed-Solomon-Viterbi coding channel
[NASA-CASE-NPO-13545-1] c 32 N77-12240
Sampling video compression system
[NASA-CASE-ARC-10984-1] c 32 N77-24328

DATA CONVERTERS

Logarithmic converter Patent
[NASA-CASE-XLA-00471] c 08 N70-34778
Mechanical coordinate converter Patent
[NASA-CASE-XNP-00614] c 14 N70-36907
Analog Signal to Discrete Time Interval Converter
(ASDTIC)
[NASA-CASE-ERC-10048] c 09 N72-25251
High speed direct binary to binary coded decimal
converter and scaler
[NASA-CASE-KSC-10595] c 08 N73-12176
Image data rate converter having a drum with a fixed
head and a rotatable head
[NASA-CASE-NPO-11659-1] c 35 N74-11283

SUBJECT INDEX

Electronic analog divider
[NASA-CASE-LEW-11881-1] c 33 N77-17354

Digital demodulator
[NASA-CASE-LAR-12659-1] c 33 N82-26570

DATA CORRELATION
Instrument for determining coincidence and elapse time between independent sources of random sequential events
[NASA-CASE-LAR-12531-1] c 35 N83-29651
Auto covariance computer
[NASA-CASE-LAR-12968-1] c 35 N83-34273

DATA LINKS
Multichannel telemetry system
[NASA-CASE-NPO-11572] c 07 N73-16121
Automated attendance accounting system
[NASA-CASE-NPO-11456] c 08 N73-26176
Multi-computer multiple data path hardware exchange system
[NASA-CASE-NPO-13422-1] c 60 N76-14818
Apparatus for simulating optical transmission links
[NASA-CASE-GSC-11877-1] c 74 N76-18913

DATA MANAGEMENT
Selective data segment monitoring system --- using shift registers
[NASA-CASE-ARC-10899-1] c 60 N77-19760

DATA PROCESSING
Energy management system for glider type vehicle Patent
[NASA-CASE-XFR-00756] c 02 N71-13421
Minimal logic block encoder Patent
[NASA-CASE-NPO-10595] c 10 N71-25917
Data transfer system Patent
[NASA-CASE-NPO-12107] c 08 N71-27255
Transient augmentation circuit for pulse amplifiers Patent
[NASA-CASE-XNP-01068] c 10 N71-28739
Pseudonoise (PN) synchronization of data system with derivation of clock frequency from received signal for clocking receiver PN generator
[NASA-CASE-XNP-03623] c 09 N73-28084
Image data rate converter having a drum with a fixed head and a rotatable head
[NASA-CASE-NPO-11659-1] c 35 N74-11283
Charge-coupled device data processor for an airborne imaging radar system
[NASA-CASE-NPO-13587-1] c 32 N77-32342
Interactive color display for multispectral imagery using correlation clustering
[NASA-CASE-MSC-16253-1] c 32 N79-20297
High-speed multiplexing of keyboard data inputs
[NASA-CASE-NPO-14554-1] c 60 N81-27814
Method of and apparatus for generating an interstitial point in a data stream having an even number of data points
[NASA-CASE-MFS-25319-1] c 64 N83-12932

DATA PROCESSING EQUIPMENT
Data processor having multiple sections activated at different times by selective power coupling to the sections Patent
[NASA-CASE-XGS-04767] c 08 N71-12494
Demodulation system Patent
[NASA-CASE-XAC-04030] c 10 N71-19472
Rate augmented digital to analog converter Patent
[NASA-CASE-XLA-07828] c 08 N71-27057
Variable digital processor including a register for shifting and rotating bits in either direction Patent
[NASA-CASE-GSC-10186] c 08 N71-33110
Flexible computer accessed telemetry
[NASA-CASE-NPO-11358] c 07 N72-25172
Versatile arithmetic unit for high speed sequential decoder
[NASA-CASE-NPO-11371] c 08 N73-12177
Data processor with conditionally supplied clock signals
[NASA-CASE-GSC-10975-1] c 08 N73-13187
Automated attendance accounting system
[NASA-CASE-NPO-11456] c 08 N73-26176
Space communication system for compressed data with a concatenated Reed-Solomon-Viterbi coding channel
[NASA-CASE-NPO-13545-1] c 32 N77-12240
High-speed multiplexing of keyboard data inputs
[NASA-CASE-NPO-14554-1] c 60 N81-27814

DATA RECORDERS
Data compressor Patent
[NASA-CASE-XNP-04067] c 08 N71-22707
Recorder using selective noise filter
[NASA-CASE-ERC-10112] c 07 N72-21119
Recorder/processor apparatus --- for optical data processing
[NASA-CASE-GSC-11553-1] c 35 N74-15831

DATA RECORDING
System for recording and reproducing pulse code modulated data Patent
[NASA-CASE-XGS-01021] c 08 N71-21042
Data compressor Patent
[NASA-CASE-XNP-04067] c 08 N71-22707

Incremental tape recorder and data rate converter Patent
[NASA-CASE-XNP-02778] c 08 N71-22710
Transient video signal recording with expanded playback Patent
[NASA-CASE-ARC-10003-1] c 09 N71-25866
On-film optical recording of camera lens settings
[NASA-CASE-MSC-12363-1] c 14 N73-26431
Image data rate converter having a drum with a fixed head and a rotatable head
[NASA-CASE-NPO-11659-1] c 35 N74-11283
Holography utilizing surface plasmon resonances
[NASA-CASE-MFS-22040-1] c 35 N74-26946

DATA REDUCTION
Data compression system
[NASA-CASE-XNP-09785] c 08 N69-21928
Method and system for respiration analysis Patent
[NASA-CASE-XFR-08403] c 05 N71-11202
Data compression system with a minimum time delay unit Patent
[NASA-CASE-XNP-08832] c 08 N71-12506
Data compression processor Patent
[NASA-CASE-NPO-10068] c 08 N71-19288
Wide range data compression system Patent
[NASA-CASE-XGS-02612] c 08 N71-19435
Data compressor Patent
[NASA-CASE-XNP-04067] c 08 N71-22707
Method and apparatus for data compression by a decreasing slope threshold test
[NASA-CASE-NPO-10769] c 08 N72-11171
Data compression system
[NASA-CASE-NPO-11243] c 07 N72-20154
Digital slope threshold data compressor
[NASA-CASE-NPO-11630] c 08 N72-33172

DATA RETRIEVAL
Magnetic matrix memory system Patent
[NASA-CASE-XMF-05835] c 08 N71-12504
Asynchronous, multiplexing, single line transmission and recovery data system --- for satellite use
[NASA-CASE-NPO-13321-1] c 32 N75-26195

DATA SAMPLING
Reduced bandwidth video communication system utilizing sampling techniques Patent
[NASA-CASE-XNP-02791] c 07 N71-23026
Signal processing apparatus for multiplex transmission Patent
[NASA-CASE-NPO-10388] c 07 N71-24622
Television signal processing system Patent
[NASA-CASE-NPO-10140] c 07 N71-24742
Method and apparatus for data compression by a decreasing slope threshold test
[NASA-CASE-NPO-10769] c 08 N72-11171
Sampling video compression system
[NASA-CASE-ARC-10984-1] c 32 N77-24328
CCD correlated quadruple sampling processor
[NASA-CASE-NPO-14246-1] c 33 N81-27396

DATA SMOOTHING
Variable time constant smoothing circuit Patent
[NASA-CASE-XGS-01983] c 10 N70-41964
Smoothing filter for digital to analog conversion
[NASA-CASE-FRC-11025-1] c 33 N82-24417

DATA STORAGE
Data handling system based on source significance, storage availability and data received from the source Patent Application
[NASA-CASE-XNP-04162-1] c 08 N70-34675
Magnetic matrix memory system Patent
[NASA-CASE-XMF-05835] c 08 N71-12504
Tape guidance system and apparatus for the provision thereof Patent
[NASA-CASE-XNP-09453] c 08 N71-19420
Event recorder Patent
[NASA-CASE-XLA-01832] c 14 N71-21006
System for recording and reproducing pulse code modulated data Patent
[NASA-CASE-XGS-01021] c 08 N71-21042
Incremental tape recorder and data rate converter Patent
[NASA-CASE-XNP-02778] c 08 N71-22710
Multiple hologram recording and readout system Patent
[NASA-CASE-ERC-10151] c 16 N71-29131
Dual purpose momentum wheels for spacecraft with magnetic recording
[NASA-CASE-NPO-11481] c 21 N73-13644
Data storage, image tube type
[NASA-CASE-MSC-14053-1] c 60 N74-12888
Lightning current waveform measuring system
[NASA-CASE-KSC-11018-1] c 33 N79-10337

DATA SYSTEMS
Data handling system based on source significance, storage availability and data received from the source Patent Application
[NASA-CASE-XNP-04162-1] c 08 N70-34675
Rate augmented digital to analog converter Patent
[NASA-CASE-XLA-07828] c 08 N71-27057

DECODERS

Method and apparatus for decoding compatible convolutional codes
[NASA-CASE-MSC-14070-1] c 32 N74-32598

DATA TRANSMISSION
Telemetry word forming unit
[NASA-CASE-XNP-09225] c 09 N69-24333
Phase-shift data transmission system having a pseudo-noise SYNC code modulated with the data in a single channel Patent
[NASA-CASE-XNP-00911] c 08 N70-41961
Data compression system with a minimum time delay unit Patent
[NASA-CASE-XNP-08832] c 08 N71-12506
Data compression processor Patent
[NASA-CASE-NPO-10068] c 08 N71-19288
Wide range data compression system Patent
[NASA-CASE-XGS-02612] c 08 N71-19435
Phase quadrature-plural channel data transmission system Patent
[NASA-CASE-XAC-06302] c 08 N71-19763
Reduced bandwidth video communication system utilizing sampling techniques Patent
[NASA-CASE-XNP-02791] c 07 N71-23026
Frequency shift keying apparatus Patent
[NASA-CASE-XGS-01537] c 07 N71-23405
Decoder system Patent
[NASA-CASE-NPO-10118] c 07 N71-24741
Data compression system
[NASA-CASE-NPO-11243] c 07 N72-20154
Multichannel telemetry system
[NASA-CASE-NPO-11572] c 07 N73-16121
Automated attendance accounting system
[NASA-CASE-NPO-11456] c 08 N73-26176
System for generating timing and control signals
[NASA-CASE-NPO-13125-1] c 33 N75-19519
Sampling video compression system
[NASA-CASE-ARC-10984-1] c 32 N77-24328
Pseudo noise code and data transmission method and apparatus
[NASA-CASE-GSC-12017-1] c 32 N77-30308
Multi-channel rotating optical interface for data transmission
[NASA-CASE-NPO-14066-1] c 74 N79-34011
System for a displaying at a remote station data generated at a central station and for powering the remote station from the central station
[NASA-CASE-GSC-12411-1] c 33 N81-14221
Retinally stabilized differential resolution television display
[US-PATENT-APPL-SN-425204] c 32 N83-12308
A single frequency multitransmitter telemetry system
[NASA-CASE-LAR-13006-1] c 17 N83-20995

DAWSONITE
Synthesis of dawsonites --- for use in fire extinguishing operations
[NASA-CASE-ARC-11326-1] c 25 N83-33977

DEBRIS
Counter pumping debris excluder and separator --- gas turbine shaft seals
[NASA-CASE-LEW-11855-1] c 07 N78-25090

DECAY RATES
Solar sensor having coarse and fine sensing with matched preirradiated cells and method of selecting cells Patent
[NASA-CASE-XLA-01584] c 14 N71-23269

DECELERATION
Assembly for recovering a capsule Patent
[NASA-CASE-XMF-00641] c 31 N70-36410
Discrete local altitude sensing device Patent
[NASA-CASE-XMS-03792] c 14 N70-41812
Hot air balloon deceleration and recovery system Patent
[NASA-CASE-XLA-06824-2] c 02 N71-11037
Zero gravity apparatus Patent
[NASA-CASE-XMF-06515] c 14 N71-23227

DECIMALS
High speed direct binary to binary coded decimal converter and scaler
[NASA-CASE-KSC-10595] c 08 N73-12176

DECISION MAKING
Method and apparatus for decoding compatible convolutional codes
[NASA-CASE-MSC-14070-1] c 32 N74-32598

DECODERS
Serial digital decoder Patent
[NASA-CASE-NPO-10150] c 08 N71-24650
BCD to decimal decoder Patent
[NASA-CASE-KXS-06167] c 08 N71-24890
Encoder/decoder system for a rapidly synchronizable binary code Patent
[NASA-CASE-NPO-10342] c 10 N71-33407
Compact-bi-phase pulse coded modulation decoder
[NASA-CASE-KSC-10834-1] c 33 N76-14371
Low distortion receiver for bi-level baseband PCM waveforms
[NASA-CASE-MSC-14557-1] c 32 N76-16249

DECODING

- Three phase full wave dc motor decoder
[NASA-CASE-GSC-11824-1] c 33 N77-26386
Decommutator patchboard verifier
[NASA-CASE-KSC-11065-1] c 33 N81-26359

DECODING

- Decoder system Patent
[NASA-CASE-NPO-10118] c 07 N71-24741
Versatile arithmetic unit for high speed sequential decoder
[NASA-CASE-NPO-11371] c 08 N73-12177
Method and apparatus for decoding compatible convolutional codes
[NASA-CASE-MSC-14070-1] c 32 N74-32598
Differential pulse code modulation
[NASA-CASE-MSC-12506-1] c 32 N77-12239

DECOMMUTATORS

- Memory-based parallel data output controller
[NASA-CASE-GSC-12447-1] c 60 N80-21987
Decommutator patchboard verifier
[NASA-CASE-KSC-11065-1] c 33 N81-26359
Memory-based parallel data output controller
[NASA-CASE-GSC-12447-2] c 17 N83-29302

DECONTAMINATION

- Decontamination of petroleum products Patent
[NASA-CASE-XNP-03835] c 06 N71-23499
Helium refrigerator and method for decontaminating the refrigerator
[NASA-CASE-NPO-10634] c 23 N72-25619
Plasma cleaning device --- designed for high vacuum environments
[NASA-CASE-MFS-22906-1] c 75 N78-27913

DEEP SPACE NETWORK

- Low phase noise digital frequency divider
[NASA-CASE-NPO-11569] c 10 N73-26229

DEFECTS

- Hybrid holographic non-destructive test system
[NASA-CASE-MFS-23114-1] c 38 N78-32447

DEFLECTION

- Bipropellant injector
[NASA-CASE-XNP-09461] c 28 N72-23809
Noncontacting method for measuring angular deflection
[NASA-CASE-LAR-12178-1] c 74 N80-21138

DEFLECTORS

- Inlet deflector for jet engines Patent
[NASA-CASE-XLE-00388] c 28 N70-34788
Aircraft wheel spray drag alleviator Patent
[NASA-CASE-XLA-01583] c 02 N70-36825
Ion beam deflector Patent
[NASA-CASE-LEW-10689-1] c 28 N71-26173
Exhaust flow deflector --- for ducted gas flow
[NASA-CASE-LAR-11570-1] c 34 N76-18364
Safety shield for vacuum/pressure chamber viewing port
[NASA-CASE-GSC-12513-1] c 31 N81-19343

DEFOCUSING

- Retrodirective modulator Patent
[NASA-CASE-GSC-10062] c 14 N71-15605

DEFORMATION

- Arbitrarily shaped model survey system Patent
[NASA-CASE-LAR-10098] c 32 N71-26681
Low cycle fatigue testing machine
[NASA-CASE-LAR-10270-1] c 32 N72-25877
Deformable bearing seat
[NASA-CASE-LEW-12527-1] c 37 N77-32500

DEGASSING

- Degassifying and mixing apparatus for liquids --- potable water for spacecraft
[NASA-CASE-MSC-18936-1] c 35 N83-29652

DEGREES OF FREEDOM

- Training vehicle for controlling attitude Patent
[NASA-CASE-XMS-02977] c 11 N71-10746
Dynamic vibration absorber Patent
[NASA-CASE-LAR-10083-1] c 15 N71-27006
Kinesthetic control simulator --- for pilot training
[NASA-CASE-LAR-10276-1] c 09 N75-15662

DEHUMIDIFICATION

- Condenser - Separator
[NASA-CASE-XLA-08645] c 15 N69-21465

DEHYDRATED FOOD

- Modification of the physical properties of freeze-dried rice
[NASA-CASE-MSC-13540-1] c 05 N72-33096
Self-charging metering and dispensing device for fluids
[NASA-CASE-MSC-20275-1] c 35 N83-17856

DEICING

- Piezoelectric deicing device
[NASA-CASE-LEW-13773-1] c 05 N83-29197

DELAY CIRCUITS

- Pulsed differential comparator circuit Patent
[NASA-CASE-XLE-03804] c 10 N71-19471
Control apparatus for applying pulses of selectively predetermined duration to a sequence of loads Patent
[NASA-CASE-XGS-04224] c 10 N71-26418

- Telemetry synchronizer
[NASA-CASE-GSC-11868-1] c 17 N76-22245

- Swept group delay measurement
[NASA-CASE-NPO-13909-1] c 33 N78-25319

- Pseudonoise code tracking loop
[NASA-CASE-MSC-18035-1] c 32 N81-15179

DELAY LINES

- A solid state acoustic variable time delay line Patent
[NASA-CASE-ERC-10032] c 10 N71-25900

DELTA MODULATION

- Multifunction audio digitizer --- producing direct delta and pulse code modulation
[NASA-CASE-MSC-13855-1] c 35 N74-17885

DELTA WINGS

- Variable-geometry winged reentry vehicle Patent
[NASA-CASE-XLA-00241] c 31 N70-37986

DEMAGNETIZATION

- Tumbler system to provide random motion
[NASA-CASE-XGS-02437] c 15 N69-21472

DEMODULATION

- Phase quadrature-plural channel data transmission system Patent
[NASA-CASE-XAC-06302] c 08 N71-19763
Facsimile video remodulation network
[NASA-CASE-GSC-10185-1] c 07 N72-12081
Quadrature demodulation
[NASA-CASE-GSC-12137-1] c 33 N78-32338

DEMODULATORS

- Telemetry word forming unit
[NASA-CASE-XNP-09225] c 09 N69-24333
Frequency shift keyed demodulator Patent
[NASA-CASE-XGS-02889] c 07 N71-11282
Bi-carrier demodulator with modulation Patent
[NASA-CASE-XMF-01160] c 07 N71-11298
Demodulation system Patent
[NASA-CASE-XAC-04030] c 10 N71-19472
Laser calibrator Patent
[NASA-CASE-XLA-03410] c 16 N71-25914

- Frequency modulation demodulator threshold extension device Patent
[NASA-CASE-MSC-12165-1] c 07 N71-33696

- Full wave modulator-demodulator amplifier apparatus --- for generating rectified output signal
[NASA-CASE-FRC-10072-1] c 33 N74-14939

- Unbalanced quadrature demodulator
[NASA-CASE-MSC-14840-1] c 32 N77-24331

- Digital demodulator-correlator
[NASA-CASE-NPO-13982-1] c 32 N79-14267

- Self-calibrating threshold detector
[NASA-CASE-MSC-16370-1] c 35 N81-19427

- Digital demodulator
[NASA-CASE-LAR-12659-1] c 33 N82-26570

DENDRITIC CRYSTALS

- Method of increasing minority carrier lifetime in silicon web or the like
[NASA-CASE-NPO-15530-1] c 76 N83-35888

DENSIFICATION

- Densification of porous refractory substrates --- space shuttle orbiter tiles
[NASA-CASE-MSC-18737-1] c 24 N83-13171

DENSITOMETERS

- Apparatus having coaxial capacitor structure for measuring fluid density Patent
[NASA-CASE-XLE-00143] c 14 N70-36618

- Densitometer Patent
[NASA-CASE-XLE-00688] c 14 N70-41330

- Ultrasonic bone densitometer
[NASA-CASE-MFS-20994-1] c 35 N75-12271

DENSITY (MASS/VOLUME)

- A stable density-stratification solar pond
[NASA-CASE-NPO-15419-1] c 44 N81-27599

- Non-toxic invert analog glass compositions of high modulus
[NASA-CASE-HQN-10328-2] c 27 N82-29454

- Method and apparatus for minimizing convection during crystal growth from solution
[NASA-CASE-NPO-15811-1] c 76 N84-12968

DENSITY DISTRIBUTION

- Apparatus for increasing ion engine beam density Patent
[NASA-CASE-XLE-00519] c 28 N70-41576

- Method and apparatus for compensating reflection losses in a path length modulated absorption-absorption trace gas detector --- for determining density of gas
[NASA-CASE-ARC-10631-1] c 74 N76-20958

DENSITY MEASUREMENT

- Apparatus having coaxial capacitor structure for measuring fluid density Patent
[NASA-CASE-XLE-00143] c 14 N70-36618

- Densitometer Patent
[NASA-CASE-XLE-00688] c 14 N70-41330

- Determining particle density using known material Hugeniot curves
[NASA-CASE-LAR-11059-1] c 76 N75-12810

- Selective image area control of X-ray film exposure density
[NASA-CASE-NPO-13808-1] c 35 N78-15461

- Device for determining frost depth and density
[NASA-CASE-MFS-25754-1] c 31 N82-26503

- Geodetic distance measuring apparatus
[NASA-CASE-GSC-12609-2] c 36 N83-29681

DENTISTRY

- Process for the preparation of brushite crystals
[NASA-CASE-ERC-10338] c 04 N72-33072

- Acoustic tooth cleaner
[NASA-CASE-LAR-12471-1] c 52 N82-29862

DEOXYGENATION

- Electrocatalyst for oxygen reduction
[NASA-CASE-HQN-10537-1] c 06 N72-10138

DEPLOYMENT

- Minimech self-deploying boom mechanism
[NASA-CASE-GSC-10566-1] c 15 N72-18477

- Deployable solar cell array
[NASA-CASE-NPO-10883] c 31 N72-22874

- Antenna deployment mechanism for use with a spacecraft --- extensible and retractable telescopic antenna mast
[NASA-CASE-GSC-12331-1] c 18 N80-14183

- High acceleration cable deployment system
[NASA-CASE-ARC-11256-1] c 15 N82-24272

- Articulated joint for deployable structures
[NASA-CASE-NPO-16038-1] c 37 N83-20157

- Sequentially deployable maneuverable tetrahedral beam
[NASA-CASE-LAR-13098-1] c 31 N83-35178

- Synchronously deployable truss structure
[NASA-CASE-LAR-13117-1] c 18 N84-16250

DEPOSITION

- Means and methods of depositing thin films on substrates Patent
[NASA-CASE-XNP-00595] c 15 N70-34967

- Monitoring deposition of films
[NASA-CASE-MFS-20675] c 26 N73-26751

- Production of pure metals
[NASA-CASE-LEW-10906-1] c 25 N74-30502

- Method of coating a substrate with a rapidly solidified metal
[NASA-CASE-GSC-12880-1] c 26 N84-20670

DEPTH MEASUREMENT

- Device for determining frost depth and density
[NASA-CASE-MFS-25754-1] c 31 N82-26503

DESCENT

- Emergency descent device
[NASA-CASE-MFS-23074-1] c 54 N77-21844

DESIGN ANALYSIS

- Airfoil shape for flight at subsonic speeds --- design analysis and aerodynamic characteristics of the GAW-1 airfoil
[NASA-CASE-LAR-10585-1] c 02 N76-22154

- Snap-in compressible biomedical electrode
[NASA-CASE-MSC-14623-1] c 52 N77-28717

DESTRUCTIVE TESTS

- Aeroelastic instability stoppers for wind tunnel models
[NASA-CASE-LAR-12458-1] c 44 N83-21503

DESULFURIZING

- Coal desulfurization process
[NASA-CASE-NPO-13937-1] c 44 N78-31527

- Continuous coal processing method
[NASA-CASE-NPO-13758-2] c 31 N81-15154

- Coal desulfurization --- using iron pentacarbonyl
[NASA-CASE-NPO-14272-1] c 25 N81-33246

- Crude oil desulfurization
[NASA-CASE-NPO-14542-1] c 25 N82-23282

- Autocatalytic coal liquefaction process
[NASA-CASE-NPO-14876-2] c 28 N82-25394

- Coal desulfurization by aqueous chlorination
[NASA-CASE-NPO-14902-1] c 25 N82-29371

- Hydrodesulfurization of chlorinated coal
[NASA-CASE-NPO-15304-1] c 25 N83-31743

- Fluidized bed desulfurization
[NASA-CASE-NPO-15924-1] c 25 N83-36122

DETECTION

- Heated element fluid flow sensor Patent
[NASA-CASE-MSC-12084-1] c 12 N71-17569

- Leak detector Patent
[NASA-CASE-LAR-10323-1] c 12 N71-17573

- Metallic intrusion detector system
[NASA-CASE-ARC-10265-1] c 10 N72-28240

- Cosmic dust or other similar outer space particles impact location detector
[NASA-CASE-GSC-11291-1] c 25 N72-33696

- Bacteria detection instrument and method
[NASA-CASE-GSC-11533-1] c 14 N73-13435

- Short range laser obstacle detector --- for surface vehicles using laser diode array
[NASA-CASE-NPO-11856-1] c 36 N74-15145

- Vacuum leak detector
[NASA-CASE-LAR-11237-1] c 35 N75-19612

Photoelectric detection system --- manufacturing automation
[NASA-CASE-MFS-23776-1] c 33 N82-28545
Apparatus and process for microbial detection and enumeration
[NASA-CASE-LAR-12709-1] c 35 N82-28604

DETECTORS

Pressurized cell micrometeoroid detector Patent
[NASA-CASE-XLA-00936] c 14 N71-14996
Detector panels-micrometeoroid impact Patent
[NASA-CASE-XLA-05906] c 31 N71-16221
Pulse activated polarographic hydrogen detector Patent
[NASA-CASE-XMF-06531] c 14 N71-17575
Light position locating system Patent
[NASA-CASE-XNP-01059] c 23 N71-21821
Method for detecting leaks in hermetically sealed containers Patent
[NASA-CASE-ERC-10045] c 15 N71-24910
Precipitation detector Patent
[NASA-CASE-XLA-02619] c 10 N71-26334
Hydrogen fire blink detector
[NASA-CASE-MFS-15063] c 14 N72-25412
Combustion detector
[NASA-CASE-LAR-10739-1] c 14 N73-16484
Multiple pass reimagining optical system
[NASA-CASE-ARC-10194-1] c 23 N73-20741
Meteoroid detector
[NASA-CASE-LAR-10483-1] c 14 N73-32327
Deployable pressurized cell structure for a micrometeoroid detector
[NASA-CASE-LAR-10295-1] c 35 N74-21062
Modulated hydrogen ion flame detector
[NASA-CASE-ARC-10322-1] c 35 N76-18403
Coal-rock interface detector
[NASA-CASE-MFS-23725-1] c 43 N79-31706

DETERGENTS

Anti-fog composition --- for prevention of fogging on surfaces such as space helmet visors and windshields
[NASA-CASE-MSC-13530-2] c 23 N75-14834

DETONATION

Optically detonated explosive device
[NASA-CASE-NPO-11743-1] c 28 N74-27425

DETONATION WAVES

Continuous detonation reaction engine Patent
[NASA-CASE-XMF-06926] c 28 N71-22983

DEUTERIUM

Analysis of hydrogen-deuterium mixtures
[NASA-CASE-NPO-11322] c 06 N72-25146
Deuterium pass through target --- neutron emitting target
[NASA-CASE-LEW-11866-1] c 72 N76-15860

DIAGNOSIS

Coupling apparatus for ultrasonic medical diagnostic system
[NASA-CASE-NPO-13935-1] c 52 N79-14751
Medical diagnosis system and method with multispectral imaging --- depth of burns and optical density of the skin
[NASA-CASE-NPO-14402-1] c 52 N81-27783

DIAGRAMS

Phototransistor
[NASA-CASE-MFS-20407] c 09 N73-19235

DIALYSIS

Dialysis system --- using ion exchange resin membranes permeable to urea molecules
[NASA-CASE-NPO-14101-1] c 52 N80-14687

DIAMINES

Elastomeric silazane polymers and process for preparing the same Patent
[NASA-CASE-XMF-04133] c 06 N71-20717
Aromatic diamine-aromatic dialdehyde high molecular weight Schiff base polymers prepared in a monofunctional Schiff base Patent
[NASA-CASE-XMF-03074] c 06 N71-24740
Siloxane containing epoxide compounds
[NASA-CASE-MFS-13994-2] c 06 N72-25148
Preparation of polyimides from mixtures of monomeric diamines and esters of polycarboxylic acids
[NASA-CASE-LEW-11325-1] c 06 N73-27980
Mixed diamines for lower melting addition polyimide preparation and utilization
[NASA-CASE-LAR-12054-1] c 27 N79-33316
Method for preparing addition type polyimide prepolymers
[NASA-CASE-LAR-12054-2] c 27 N81-14078
The 1-(dialkoxylphosphonyl)methyl-2,4- and -2,6-dinitro- and diamino benzenes and their derivatives
[NASA-CASE-ARC-11425-1] c 23 N83-28076
Fire resistant polymers based on 1-(dialkoxylphosphonyl)methyl-2,4- and -2,6-diaminobenzenes
[NASA-CASE-ARC-11512-1] c 27 N84-20702

DIAMONDS

Apparatus for making diamonds
[NASA-CASE-MFS-20698] c 15 N72-20446
Process for making diamonds
[NASA-CASE-MFS-20698-2] c 15 N73-19457

DIAPHRAGMS (MECHANICS)

Measuring device Patent
[NASA-CASE-XMS-01546] c 14 N70-40233
Reinforcing means for diaphragms Patent
[NASA-CASE-XNP-01962] c 32 N70-41370
Self-sealing, unbonded, rocket motor nozzle closure Patent
[NASA-CASE-XLA-02651] c 28 N70-41967
Means for controlling rupture of shock tube diaphragms Patent
[NASA-CASE-XAC-00731] c 11 N71-15960
Fast opening diaphragm Patent
[NASA-CASE-XLA-03660] c 15 N71-21060
Inertia diaphragm pressure transducer Patent
[NASA-CASE-XAC-02981] c 14 N71-21072
Convoluting device for forming convolutions and the like Patent
[NASA-CASE-XNP-05297] c 15 N71-23811
Differential pressure control
[NASA-CASE-MFS-14216] c 14 N73-13418

DIATOMIC GASES

Diatomic infrared gasdynamic laser --- for producing different wavelengths
[NASA-CASE-ARC-10370-1] c 36 N75-31426

DICHROISM

Dichroic plate --- as bandpass filters
[NASA-CASE-NPO-13506-1] c 35 N76-15435
Microwave dichroic plate
[NASA-CASE-GSC-12171-1] c 33 N79-28416

DICKE RADIOMETERS

Distributed-switch Dicke radiometers
[NASA-CASE-GSC-12219-1] c 35 N80-18359

DIELECTRIC PROPERTIES

Capacitive tank gaging apparatus being independent of liquid distribution
[NASA-CASE-MFS-21629] c 14 N72-22442
Fine particulate capture device
[NASA-CASE-LEW-11583-1] c 35 N79-17192

DIELECTRICS

Method for producing a solar cell having an integral protective covering
[NASA-CASE-XGS-04531] c 03 N69-24267
Temperature sensitive capacitor device
[NASA-CASE-XNP-09750] c 14 N69-39937
Space vehicle electrical system Patent
[NASA-CASE-XMF-00517] c 03 N70-34157
Nose cone mounted heat resistant antenna Patent
[NASA-CASE-XMS-04312] c 07 N71-22984
Broadband microwave waveguide window Patent
[NASA-CASE-XNP-08880] c 09 N71-24808
Laser machining apparatus Patent
[NASA-CASE-HON-10541-2] c 15 N71-27135
Quasi-optical microwave component Patent
[NASA-CASE-ERC-10011] c 07 N71-29065
Method of manufacturing semiconductor devices using refractory dielectrics
[NASA-CASE-XER-08476-1] c 26 N72-17820
Screened circuit capacitors
[NASA-CASE-LAR-10294-1] c 26 N72-28762
Low loss dichroic plate
[NASA-CASE-NPO-13171-1] c 32 N74-11000
Electrostatic measurement system --- for contact-electrifying a dielectric
[NASA-CASE-MFS-22129-1] c 33 N75-18477
Method and apparatus for measurement of trap density and energy distribution in dielectric films
[NASA-CASE-NPO-13443-1] c 76 N76-20994
Preparation of dielectric coating of variable dielectric constant by plasma polymerization
[NASA-CASE-ARC-10892-2] c 27 N79-14214
Dielectric-loaded waveguide circulator for cryogenically cooled and cascaded maser waveguide structures
[NASA-CASE-NPO-14254-1] c 36 N80-18372

DIES

Convoluting device for forming convolutions and the like Patent
[NASA-CASE-XNP-05297] c 15 N71-23811
Extrusion die for refractory metals Patent
[NASA-CASE-XLE-06773] c 15 N71-23817
Holding fixture for a hot stamping press
[NASA-CASE-GSC-12619-1] c 37 N84-12491
Ultrasonic angle beam standard reflector
[NASA-CASE-LAR-13153-1] c 71 N84-21274

DIESEL ENGINES

Diesel engine catalytic combustor system --- turbocharging
[NASA-CASE-LEW-12995-1] c 37 N80-26659
Apparatus and method for destructive removal of particles contained in flowing fluid
[NASA-CASE-NPO-15426-1] c 35 N84-17555

DIETS

Reduction of blood serum cholesterol
[NASA-CASE-NPO-12119-1] c 52 N75-15270

DIFFERENTIAL AMPLIFIERS

Temperature compensated solid state differential amplifier Patent
[NASA-CASE-XAC-00435] c 09 N70-35440
Stepping motor control circuit Patent
[NASA-CASE-GSC-10366-1] c 10 N71-18772
Multi-channel temperature measurement amplification system --- solar heating systems
[NASA-CASE-MFS-23775-1] c 44 N82-16474

DIFFERENTIAL INTERFEROMETRY

Gravimeter Patent
[NASA-CASE-XMF-05844] c 14 N71-17587

DIFFERENTIAL PRESSURE

Relief valve
[NASA-CASE-XMS-05894-1] c 15 N69-21924
Apparatus for ejection of an instrument cover
[NASA-CASE-XMF-04132] c 15 N69-27502
Differential sound level meter
[NASA-CASE-LAR-12106-1] c 71 N78-14867
Differential optoacoustic absorption detector
[NASA-CASE-NPO-13759-1] c 74 N78-17867
System for use in conducting wake investigation for a wing in flight --- differential pressure measurements for drag investigations
[NASA-CASE-FRC-11024-1] c 02 N80-28300

DIFFERENTIATORS

Window comparator
[NASA-CASE-FRC-10090-1] c 33 N78-18308

DIFFRACTION

Optical mirror apparatus Patent
[NASA-CASE-ERC-10001] c 23 N71-24868

DIFFRACTION PATTERNS

Fringe counter for interferometers Patent
[NASA-CASE-LAR-10204] c 14 N71-27215

DIFFRACTOMETERS

Dual purpose optical instrument capable of simultaneously acting as spectrometer and diffractometer
[NASA-CASE-XNP-05231] c 14 N73-28491

DIFFUSE RADIATION

Transmitting and reflecting diffuser --- using ultraviolet grade fused silica coatings
[NASA-CASE-LAR-10385-3] c 74 N78-15879

DIFFUSERS

Application of semiconductor diffusants to solar cells by screen printing
[NASA-CASE-LEW-12775-1] c 44 N79-11468

DIFFUSION

A method for selective gold diffusion of monolithic silicon devices and/or circuits Patent application
[NASA-CASE-ERC-10072] c 09 N70-11148
Metallic film diffusion for boundary lubrication Patent
[NASA-CASE-XLE-10337] c 15 N71-24046
Transmitting and reflecting diffuser --- for ultraviolet light
[NASA-CASE-LAR-10385-2] c 70 N74-13436

DIFFUSION PUMPS

Trap for preventing diffusion pump backstreaming
[NASA-CASE-GSC-10518-1] c 15 N72-22489
Programmable physiological infusion
[NASA-CASE-ARC-10447-1] c 52 N74-22771

DIFFUSION WELDING

Thermal compression bonding of interconnectors
[NASA-CASE-GSC-10303] c 15 N72-22487
Bonding of reinforced Teflon to metals
[NASA-CASE-MFS-20482] c 15 N72-22492
Enhanced diffusion welding
[NASA-CASE-LEW-11388-1] c 15 N73-32358
Method of fluxless brazing and diffusion bonding of aluminum containing components
[NASA-CASE-MSC-14435-1] c 37 N78-18455
Superplastically formed diffusion bonded metallic structure
[NASA-CASE-FRC-11026-1] c 24 N82-24296

DIGITAL COMMAND SYSTEMS

Digitally controlled frequency synthesizer Patent
[NASA-CASE-XGS-02317] c 09 N71-23525
System for maintaining a motor at a predetermined speed utilizing digital feedback means Patent
[NASA-CASE-XMF-06892] c 09 N71-24805
Digital filter for reducing sampling jitter in digital control systems Patent
[NASA-CASE-NPO-11088] c 08 N71-29034

DIGITAL COMPUTERS

Disk pack cleaning table Patent Application
[NASA-CASE-LAR-10590-1] c 15 N70-26819
Binary number sorter Patent
[NASA-CASE-NPO-10112] c 08 N71-12502
Binary sequence detector Patent
[NASA-CASE-XNP-05415] c 08 N71-12505
Electronic checkout system for space vehicles Patent
[NASA-CASE-XKS-08012-2] c 31 N71-15566
Error correcting method and apparatus Patent
[NASA-CASE-XNP-02748] c 08 N71-22749
Serial digital decoder Patent
[NASA-CASE-NPO-10150] c 08 N71-24650

Digital memory sense amplifying means Patent
[NASA-CASE-XNP-01012] c 08 N71-28925
Redundant memory organization Patent
[NASA-CASE-GSC-10564] c 10 N71-29135
High speed direct binary to binary coded decimal
converter and scaler
[NASA-CASE-KSC-10595] c 08 N73-12176
Fault tolerant clock apparatus utilizing a controlled
minority of clock elements
[NASA-CASE-MSC-12531-1] c 35 N75-30504
Two-dimensional radiant energy array computers and
computing devices
[NASA-CASE-GSC-11839-1] c 60 N77-14751
Memory device for two-dimensional radiant energy array
computers
[NASA-CASE-GSC-11839-2] c 60 N78-10709
Environmental fog/rain visual display system for aircraft
simulators
[NASA-CASE-ARC-11158-1] c 09 N82-24212

DIGITAL DATA

Phase-shift data transmission system having a
pseudo-noise SYNC code modulated with the data in a
single channel Patent
[NASA-CASE-XNP-00911] c 08 N70-41961
Tape guidance system and apparatus for the provision
thereof Patent
[NASA-CASE-XNP-09453] c 08 N71-19420
Digital telemetry system Patent
[NASA-CASE-XGS-01812] c 07 N71-23001
Transient augmentation circuit for pulse amplifiers
Patent
[NASA-CASE-XNP-01068] c 10 N71-28739
Transition tracking bit synchronization system
[NASA-CASE-NPO-10844] c 07 N72-20140
Digital control and information system
[NASA-CASE-NPO-11016] c 08 N72-31226
Digital plus analog output encoder
[NASA-CASE-GSC-12115-1] c 62 N76-31946
Digital data reformatter/deserializer
[NASA-CASE-NPO-13676-1] c 60 N79-20751
Heads up display
[NASA-CASE-LAR-12630-1] c 06 N82-29319
Memory-based parallel data output controller
[NASA-CASE-GSC-12447-2] c 17 N83-29302

DIGITAL FILTERS

Signal detection and tracking apparatus Patent
[NASA-CASE-XGS-03502] c 10 N71-20852
Digital filter for reducing sampling jitter in digital control
systems Patent
[NASA-CASE-NPO-11088] c 08 N71-29034
Counting digital filters
[NASA-CASE-NPO-11821-1] c 08 N73-26175
Filtering device --- removing electromagnetic noise from
voice communication signals
[NASA-CASE-MFS-22729-1] c 32 N76-21366

DIGITAL INTEGRATORS

Digital automatic gain amplifier
[NASA-CASE-KSC-11008-1] c 33 N79-22373

DIGITAL RADAR SYSTEMS

Real-time multiple-look synthetic aperture radar
processor for spacecraft applications
[NASA-CASE-NPO-14054-1] c 32 N82-12297

DIGITAL SPACECRAFT TELEVISION

Digital television camera control system Patent
[NASA-CASE-XNP-01472] c 14 N70-41807

DIGITAL SYSTEMS

Light sensitive digital aspect sensor Patent
[NASA-CASE-XGS-00359] c 14 N70-34158
Full binary adder Patent
[NASA-CASE-XGS-00689] c 08 N70-34787
Digital telemetry system Patent
[NASA-CASE-XGS-01812] c 07 N71-23001
Drive circuit utilizing two cores Patent
[NASA-CASE-XNP-01318] c 10 N71-23033
Noninterruptible digital counting system Patent
[NASA-CASE-XNP-09759] c 08 N71-24891
Digital memory in which the driving of each word location
is controlled by a switch core Patent
[NASA-CASE-XNP-01466] c 10 N71-26434
Digital quasi-exponential function generator
[NASA-CASE-NPO-11130] c 08 N72-20176
Digital function generator
[NASA-CASE-NPO-11104] c 08 N72-22165
Digital video display system using cathode ray tube
[NASA-CASE-NPO-11342] c 09 N72-25248
Digital slope threshold data compressor
[NASA-CASE-NPO-11630] c 08 N72-33172
Data processor with conditionally supplied clock
signals
[NASA-CASE-GSC-10975-1] c 08 N73-13187
Low phase noise digital frequency divider
[NASA-CASE-NPO-11569] c 10 N73-26229
Pseudonoise (PN) synchronization of data system with
derivation of clock frequency from received signal for
clocking receiver PN generator
[NASA-CASE-XNP-03623] c 09 N73-28084

Digital second-order phase-locked loop
[NASA-CASE-NPO-11905-1] c 33 N74-12887
Digital controller for a Baum folding machine --- providing
automatic counting and machine shutoff
[NASA-CASE-LAR-10688-1] c 37 N74-21056
Digital transmitter for data bus communications
system
[NASA-CASE-MSC-14558-1] c 32 N75-21486
Automatic character skew and spacing checking network
--- of digital tape drive systems
[NASA-CASE-GSC-11925-1] c 33 N76-18353
Anti-multipath digital signal detector
[NASA-CASE-LAR-11827-1] c 32 N77-10392
Multiple rate digital command detection system with
range clean-up capability
[NASA-CASE-NPO-13753-1] c 32 N77-20289
Open loop digital frequency multiplier
[NASA-CASE-MSC-12709-1] c 33 N77-24375
Bit error rate measurement above and below bit rate
tracking threshold
[NASA-CASE-MSC-12743-1] c 32 N79-10263
Apparatus and method for stabilized phase detection
for binary signal tracking loops
[NASA-CASE-MSC-16461-1] c 33 N79-11313
Digital demodulator-correlator
[NASA-CASE-NPO-13982-1] c 32 N79-14267
Memory-based frame synchronizer --- for digital
communication systems
[NASA-CASE-GSC-12430-1] c 60 N82-16747
Digital demodulator
[NASA-CASE-LAR-12659-1] c 33 N82-26570
Random digital encryption secure communication
system
[NASA-CASE-MSC-16462-1] c 32 N82-31583
Error correction method and apparatus for electronic
timepieces
[NASA-CASE-LAR-12654-1] c 33 N83-36357

DIGITAL TECHNIQUES

Digital frequency discriminator Patent
[NASA-CASE-MFS-14322] c 08 N71-18692
Exclusive-Or digital logic module Patent
[NASA-CASE-XLA-07732] c 08 N71-18751
Horizon sensor with a plurality of fixedly positioned
radiation compensated radiation sensitive detectors
Patent
[NASA-CASE-XNP-06957] c 14 N71-21088
Digital cardiometer system Patent
[NASA-CASE-XMS-02399] c 05 N71-22896
Digital synchronizer Patent
[NASA-CASE-NPO-10851] c 07 N71-24613
Fringe counter for interferometers Patent
[NASA-CASE-LAR-10204] c 14 N71-27215
Rate data encoder
[NASA-CASE-LAR-10128-1] c 08 N73-20217
Digital communication system
[NASA-CASE-MSC-13912-1] c 32 N74-30524
Digital phase-locked loop
[NASA-CASE-GSC-11623-1] c 33 N75-25040
Digital numerically controlled oscillator
[NASA-CASE-MSC-16747-1] c 33 N81-17349
Random digital encryption secure communication
system
[NASA-CASE-MSC-16462-1] c 32 N82-31583

DIGITAL TO ANALOG CONVERTERS

Rate augmented digital to analog converter Patent
[NASA-CASE-XLA-07828] c 08 N71-27057
Buffered analog converter
[NASA-CASE-KSC-10397] c 08 N72-25206
Digital to analog conversion apparatus
[NASA-CASE-MSC-12458-1] c 08 N73-32081
Smoothing filter for digital to analog conversion
[NASA-CASE-FRC-11025-1] c 33 N82-24417
Digital control of diode laser for atmospheric
spectroscopy
[NASA-CASE-NPO-16000-1] c 36 N83-24842
Memory-based parallel data output controller
[NASA-CASE-GSC-12447-2] c 17 N83-29302

DIGITAL TRANSDUCERS

Digital to analog conversion apparatus
[NASA-CASE-MSC-12458-1] c 08 N73-32081
Angle detector
[NASA-CASE-ARC-11036-1] c 35 N78-32395

DIISOCYANATES

Polyurethanes of fluorine containing polycarbonates
[NASA-CASE-MFS-10512] c 06 N73-30099
Polyurethanes from fluoroalkyl propylene glycol
polyethers
[NASA-CASE-MFS-10506] c 06 N73-30100
Fluorine containing polyurethane
[NASA-CASE-MFS-10509] c 06 N73-30103

DIMENSIONAL MEASUREMENT

Cervix-to-rectum measuring device in a radiation
applicator for use in the treatment of cervical cancer
[NASA-CASE-GSC-12081-2] c 52 N82-22875

DIMENSIONS

Projection system for display of parallax and
perspective
[NASA-CASE-MFS-23194-1] c 35 N78-17357

DIODES

Diode and protection fuse unit Patent
[NASA-CASE-XKS-03381] c 09 N71-22796
Protection of serially connected solar cells against open
circuits by the use of shunting diode Patent
[NASA-CASE-XLE-04535] c 03 N71-23354
Shielded cathode mode bulk effect devices
[NASA-CASE-ERC-10119] c 26 N72-21701
Fast response low power drain logic circuits
[NASA-CASE-GSC-10878-1] c 10 N72-22236
Method and apparatus for detecting surface ions on
silicon diodes and transistors
[NASA-CASE-ERC-10325] c 15 N72-25457
Temperature compensated light source using a light
emitting diode
[NASA-CASE-ARC-10467-1] c 09 N73-14214
Wide temperature range electronic device with lead
attachment
[NASA-CASE-ERC-10224-2] c 09 N73-27150
High isolation RF signal selection switches
[NASA-CASE-NPO-13081-1] c 33 N74-22814
Logarithmic circuit with wide dynamic range
[NASA-CASE-GSC-12145-1] c 33 N78-32339
Regulated high efficiency, lightweight, capacitor-diode
multiplier dc to dc converter
[NASA-CASE-LEW-12791-1] c 33 N78-32341
Thermal compensator for closed-cycle helium
refrigerator --- assuring constant temperature for an
infrared laser diode
[NASA-CASE-GSC-12168-1] c 31 N79-17029
Arrangement for damping the resonance in a laser
diode
[NASA-CASE-NPO-15980-1] c 36 N82-28618

DIPHENYL COMPOUNDS

Amine terminated bisaspartimides, process for
preparation thereof, and polymers thereof
[NASA-CASE-ARC-11421-1] c 27 N84-16340

DIPOLE ANTENNAS

Circularly polarized antenna
[NASA-CASE-ERC-10214] c 09 N72-31235
Cavity-backed, micro-strip dipole antenna array
[NASA-CASE-MSC-18606-1] c 32 N82-11336

DIRECT CURRENT

Regulated dc to dc converter
[NASA-CASE-XGS-03429] c 03 N69-21330
Bus voltage compensation circuit for controlling direct
current motor
[NASA-CASE-XMS-04215-1] c 09 N69-39987
Thermionic diode switch Patent
[NASA-CASE-NPO-10404] c 03 N71-12255
A dc-coupled noninverting one-shot Patent
[NASA-CASE-NPO-09450] c 10 N71-18723
Stepping motor control circuit Patent
[NASA-CASE-GSC-10366-1] c 10 N71-18772
Frequency control network for a current feedback
oscillator Patent
[NASA-CASE-GSC-10041-1] c 10 N71-19418
Self-repeating plasma generator having communicating
annular and linear arc discharge passages Patent
[NASA-CASE-XLA-03103] c 25 N71-21693
Positive dc to positive dc converter Patent
[NASA-CASE-XMF-14301] c 09 N71-23188
Positive dc to negative dc converter Patent
[NASA-CASE-XMF-08217] c 03 N71-23239
Blood pressure measuring system for separating and
separately recording dc signal and an ac signal Patent
[NASA-CASE-XMS-06061] c 05 N71-23317
Radio frequency coaxial high pass filter Patent
[NASA-CASE-XGS-01418] c 09 N71-23573
Brushless direct current tachometer Patent
[NASA-CASE-MFS-20385] c 09 N71-24904
Inverter with means for base current shaping for
sweeping charge carriers from base region Patent
[NASA-CASE-XGS-06226] c 10 N71-25950
Dual polarity full wave dc motor drive Patent
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Device for separating occupant from an ejection seat
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[NASA-CASE-XMS-04625] c 05 N71-20718

EJECTORS
Ejection unit Patent
[NASA-CASE-XNP-00676] c 15 N70-38996
Device for separating occupant from an ejection seat
Patent
[NASA-CASE-XMS-04625] c 05 N71-20718
Latch/ejector unit Patent
[NASA-CASE-XLA-03538] c 15 N71-24897
Diffuser/ejector system for a very high vacuum environment
[NASA-CASE-MFS-15791-1] c 37 N82-33712

ELASTIC BODIES
Belleville spring assembly with elastic guides
[NASA-CASE-XNP-09452] c 15 N69-27504
Means for suppressing or attenuating bending motion of elastic bodies Patent
[NASA-CASE-XAC-05632] c 32 N71-23971
Device for measuring tensile forces
[NASA-CASE-MFS-21728-1] c 35 N74-27865

ELASTIC DEFORMATION
Instrument for measuring torsional creep and recovery
Patent
[NASA-CASE-XLE-01481] c 14 N71-10781
Means for suppressing or attenuating bending motion of elastic bodies Patent
[NASA-CASE-XAC-05632] c 32 N71-23971

ELASTIC MEDIA
Miniature vibration isolator Patent
[NASA-CASE-XLA-01019] c 15 N70-40156

ELASTIC PROPERTIES
Elastic universal joint Patent
[NASA-CASE-XNP-00416] c 15 N70-36947
Deformable vehicle wheel Patent
[NASA-CASE-MFS-20400] c 31 N71-18611
Threadless fastener apparatus Patent
[NASA-CASE-XFR-05302] c 15 N71-23254
Highly fluorinated polyurethanes
[NASA-CASE-NPO-10767-1] c 06 N73-33076
Meter for use in detecting tension in straps having predetermined elastic characteristics
[NASA-CASE-MFS-22189-1] c 35 N75-19615

Process for improving moisture resistance of epoxy resins by addition of cobalt ions --- potential applications to composite matrix resins, adhesives, and casting resins for aerospace utilization
[NASA-CASE-LAR-13230-1] c 27 N84-20701

ELASTIC SHEETS
Method for forming plastic materials Patent
[NASA-CASE-XMS-05516] c 15 N71-17803

ELASTOMERS
Metal valve pintle with encapsulated elastomeric body Patent
[NASA-CASE-MSC-12116-1] c 15 N71-17648
Extensometer Patent
[NASA-CASE-XMF-04680] c 15 N71-19489
Elastomeric silazane polymers and process for preparing the same Patent
[NASA-CASE-XMF-04133] c 06 N71-20717
Bonded elastomeric seal for electrochemical cells Patent
[NASA-CASE-XGS-02631] c 03 N71-23006
Conductive elastomeric extensometer
[NASA-CASE-MFS-21049-1] c 52 N74-27864
Vacuum pressure molding technique
[NASA-CASE-LAR-10073-1] c 37 N76-24575
Method of making hollow elastomeric bodies
[NASA-CASE-NPO-13535-1] c 37 N76-31524
Process for spinning flame retardant elastomeric compositions --- fabricating synthetic fibers for high oxygen environments
[NASA-CASE-MSC-14331-3] c 27 N78-32262
Curable liquid hydrocarbon prepolymers containing hydroxyl groups and process for producing same
[NASA-CASE-NPO-13137-1] c 27 N80-32514
Prepolymer dianhydrides
[NASA-CASE-NPO-13899-1] c 27 N80-32515
Viscoelastic cationic polymers containing the urethane linkage
[NASA-CASE-NPO-10830-1] c 27 N81-15104
Process for the preparation of fluorine containing crosslinked elastomeric polytriazine and product so produced
[NASA-CASE-ARC-11248-1] c 27 N81-17259
The 1,2,4-oxadiazole elastomers --- heat resistant polymers
[NASA-CASE-ARC-11253-1] c 27 N81-17262
Bifunctional monomers having terminal oxime and cyano or amidine groups
[NASA-CASE-ARC-11253-3] c 27 N81-24256
Circumferential shaft seal
[NASA-CASE-LEW-12119-2] c 37 N81-26447
Heat sealable, flame and abrasion resistant coated fabric --- clothing and containers for space exploration
[NASA-CASE-MSC-18382-1] c 27 N82-16238
Preparation of crosslinked 1,2,4-oxadiazole polymer
[NASA-CASE-ARC-11253-2] c 27 N82-24338
Method of bonding plasticized elastomer to metal and articles produced thereby
[NASA-CASE-MFS-25181-1] c 27 N82-24340
Elastomer toughened polyimide adhesives
[NASA-CASE-LAR-12775-1] c 27 N83-28240
Elastomer-modified phosphorus-containing imide resins
[NASA-CASE-ARC-11400-1] c 27 N84-14322

ELECTRIC ARCS
Electric-arc heater Patent
[NASA-CASE-XLA-00330] c 33 N70-34540
Electric arc welding Patent
[NASA-CASE-XMF-00392] c 15 N70-34814
Electric arc driven wind tunnel Patent
[NASA-CASE-XMF-00411] c 11 N70-36913
Electric arc device for heating gases Patent
[NASA-CASE-XAC-00319] c 25 N70-41628
Electric arc apparatus Patent
[NASA-CASE-XAC-01677] c 09 N71-20816
Arc electrode of graphite with ball tip Patent
[NASA-CASE-XLE-04788] c 09 N71-22987
High powered arc electrodes --- producing solar simulator radiation
[NASA-CASE-LEW-11162-1] c 33 N74-12913
Electric arc light source having undercut recessed anode
[NASA-CASE-ARC-10266-1] c 33 N75-29318

ELECTRIC AUTOMOBILES
Additive for zinc electrodes --- electric automobiles
[NASA-CASE-LEW-13286-1] c 33 N84-14422

ELECTRIC BATTERIES
Spacecraft battery seals
[NASA-CASE-XGS-03864] c 15 N69-24320
Sealed battery gas manifold construction Patent
[NASA-CASE-XNP-03378] c 03 N71-11051
Method and apparatus for battery charge control Patent
[NASA-CASE-XGS-05432] c 03 N71-19438
Coulometer and third electrode battery charging circuit Patent
[NASA-CASE-GSC-10487-1] c 03 N71-24719

ELECTRIC CONNECTORS

Heat activated cell Patent
[NASA-CASE-LEW-11359] c 03 N71-28579
Synchronous orbit battery cycler
[NASA-CASE-GSC-11211-1] c 03 N72-25020
Storage battery comprising negative plates of a wedge shaped configuration --- for preventing shape change induced malfunctions
[NASA-CASE-NPO-11806-1] c 44 N74-19693
Battery testing device --- for testing cells of multiple-cell battery
[NASA-CASE-MFS-20761-1] c 44 N74-27519
Rapid activation and checkout device for batteries
[NASA-CASE-MFS-22749-1] c 44 N76-14601
Zinc-halide battery with molten electrolyte
[NASA-CASE-NPO-11961-1] c 44 N76-18643
Lead-oxygen dc power supply system having a closed loop oxygen and water system
[NASA-CASE-MFS-23059-1] c 44 N76-27664
Voltage regulator for battery power source --- using a bipolar transistor
[NASA-CASE-FRC-10116-1] c 33 N79-23345
In-situ cross linking of polyvinyl alcohol --- application to battery separator films
[NASA-CASE-LEW-13135-2] c 27 N81-24257
State-of-charge coulometer
[NASA-CASE-NPO-15759-1] c 35 N82-26630

ELECTRIC BRIDGES
Pulsed excitation voltage circuit for transducers
[NASA-CASE-FRC-10036] c 09 N72-22200
Infinite range electronics gain control circuit
[NASA-CASE-GSC-10786-1] c 10 N72-28241
Diode-quad bridge circuit means
[NASA-CASE-ARC-10364-2] c 33 N75-25041
Germanium coated microbridge and method
[NASA-CASE-MFS-23274-1] c 33 N78-13320
Power converter
[NASA-CASE-FRC-11014-1] c 33 N82-18494
Split-cross-bridge-resistor for testing for proper fabrication of integrated circuit
[NASA-CASE-NPO-16021-1] c 33 N83-24769

ELECTRIC CELLS
Connector strips-positive, negative and T tabs
[NASA-CASE-XGS-01395] c 03 N69-21539
Heat activated cell with alkali anode and alkali salt electrolyte Patent
[NASA-CASE-LEW-11358] c 03 N71-26084
Ion-exchange membrane with platinum electrode assembly Patent
[NASA-CASE-XMS-02063] c 03 N71-29044

ELECTRIC CHARGE
Method and device for determining battery state of charge Patent
[NASA-CASE-NPO-10194] c 03 N71-20407
Automatic battery charger Patent
[NASA-CASE-XNP-04758] c 03 N71-24605
State-of-charge coulometer
[NASA-CASE-NPO-15759-1] c 35 N82-26630

ELECTRIC CHOPPERS
Monostable multivibrator
[NASA-CASE-GSC-10082-1] c 10 N72-20221
Transformer regulated self-stabilizing chopper
[NASA-CASE-XGS-09186] c 33 N78-17295

ELECTRIC COILS
Broadband choke for antenna structure
[NASA-CASE-MSC-05303] c 07 N69-27462
A brushless dc tachometer
[NASA-CASE-NPO-15706-1] c 35 N82-26633

ELECTRIC CONDUCTORS
Electrode and insulator with shielded dielectric junction
[NASA-CASE-XLE-03778] c 09 N69-21542
Solar cell matrix Patent
[NASA-CASE-NPO-10821] c 03 N71-19545
Electrical switching device Patent
[NASA-CASE-NPO-10037] c 09 N71-19610
Flexible conductive disc electrode Patent
[NASA-CASE-FRC-10029] c 09 N71-24618
Electrical insulating layer process
[NASA-CASE-LEW-10489-1] c 15 N72-25447
Injector for use in high voltage isolators for liquid feed lines
[NASA-CASE-NPO-11377] c 15 N73-27406
Solar cell grid patterns
[NASA-CASE-NPO-13087-2] c 44 N76-31666
Velocity measurement system
[NASA-CASE-MFS-23363-1] c 35 N78-32396
Shielded conductor cable system
[NASA-CASE-MSC-12745-1] c 33 N81-27397
Trace water sensor
[NASA-CASE-NPO-15722-1] c 35 N83-20084

ELECTRIC CONNECTORS
Connector - Electrical
[NASA-CASE-XLA-01288] c 09 N69-21470
Test fixture for pellet-like electrical elements
[NASA-CASE-XNP-06032] c 09 N69-21926

Coupling device
[NASA-CASE-XMS-07846-1] c 09 N69-21927
Electrical feed-through connection for printed circuit boards and printed cable
[NASA-CASE-XMF-01483] c 14 N69-27431
Electrical connector pin with wiping action
[NASA-CASE-XMF-04238] c 09 N69-39734
Electrical connector Patent Application
[NASA-CASE-MFS-14741] c 09 N70-20737
Electrical connector for flat cables Patent
[NASA-CASE-XMF-00324] c 09 N70-34596
Printed cable connector Patent
[NASA-CASE-XMF-00369] c 09 N70-36494
Printed circuit board with bellows rivet connection Patent
[NASA-CASE-XNP-05082] c 15 N70-41960
Method of making a molded connector Patent
[NASA-CASE-XMF-03498] c 15 N71-15986
Coaxial cable connector Patent
[NASA-CASE-XNP-04732] c 09 N71-20851
Connector internal force gauge Patent
[NASA-CASE-XNP-03918] c 14 N71-23087
Protection of serially connected solar cells against open circuits by the use of shunting diode Patent
[NASA-CASE-XLE-04535] c 03 N71-23354
Microelectronic module package Patent
[NASA-CASE-XMS-02182] c 10 N71-28783
Breakaway connector
[NASA-CASE-NPO-11140] c 15 N72-17455
Electrical connector
[NASA-CASE-NPO-10694] c 09 N72-20200
Radio frequency filter device
[NASA-CASE-XLA-02609] c 09 N72-25256
Use of unilluminated solar cells as shunt diodes for a solar array
[NASA-CASE-GSC-10344-1] c 03 N72-27053
Electrical connector
[NASA-CASE-MFS-20757] c 09 N72-28225
Device for configuring multiple leads --- method for connecting electric leads to printed circuit board
[NASA-CASE-MFS-22133-1] c 33 N74-26977
Connector --- for connecting circuits on different layers of multilayer printed circuit boards
[NASA-CASE-LAR-11709-1] c 37 N76-27567
Percutaneous connector device
[NASA-CASE-KSC-10849-1] c 52 N77-14738
Magnetic electrical connectors for biomedical percutaneous implants
[NASA-CASE-KSC-11030-1] c 52 N77-25772
Electrical self-aligning connector
[NASA-CASE-MFS-25211-1] c 33 N80-32651
Decommutator patchboard verifier
[NASA-CASE-KSC-11065-1] c 33 N81-26359
Coupling an induction motor type generator to a-c power lines
[NASA-CASE-MFS-25302-2] c 33 N83-24768
Electrical self-aligning connector --- orbital servicer vehicles
[NASA-CASE-MFS-25211-2] c 33 N84-14423

ELECTRIC CONTACTS

Solid state switch
[NASA-CASE-XNP-09228] c 09 N69-27500
Deflective rod switch with elastic support and sealing means Patent
[NASA-CASE-XNP-09808] c 09 N71-12518
Method of making electrical contact on silicon solar cell and resultant product Patent
[NASA-CASE-XLE-04787] c 03 N71-20492
Continuous turning slip ring assembly Patent
[NASA-CASE-XMF-01049] c 15 N71-23049
Electrical connector
[NASA-CASE-MFS-20757] c 09 N72-28225
Electrostatic measurement system --- for contact-electrifying a dielectric
[NASA-CASE-MFS-22129-1] c 33 N75-18477
Process for preparing liquid metal electrical contact device
[NASA-CASE-LEW-11978-1] c 33 N77-26385
Non-contacting power transfer device
[NASA-CASE-GSC-12595-1] c 33 N82-24422
Solar cell having improved back surface reflector
[NASA-CASE-LEW-13620-1] c 44 N83-13579

ELECTRIC CONTROL

Increasing efficiency of switching type regulator circuits Patent
[NASA-CASE-XMS-09352] c 09 N71-23316
Energy saving electrical motor control system
[NASA-CASE-MFS-25560-1] c 33 N82-30472

ELECTRIC CURRENT

Didymium hydrate additive to nickel hydroxide electrodes Patent
[NASA-CASE-XGS-03505] c 03 N71-10608
Electrical load protection device Patent
[NASA-CASE-MS-12135-1] c 09 N71-12526

Micro current measuring device using plural logarithmic response heated filamentary type diodes Patent
[NASA-CASE-XNP-00384] c 09 N71-13530
Connector internal force gauge Patent
[NASA-CASE-XNP-03918] c 14 N71-23087
Pulse modulator providing fast rise and fall times Patent
[NASA-CASE-XMS-04919] c 09 N71-23270
Polarity sensitive circuit Patent
[NASA-CASE-XNP-00952] c 10 N71-23271
Protection of serially connected solar cells against open circuits by the use of shunting diode Patent
[NASA-CASE-XLE-04535] c 03 N71-23354
Color television systems using a single gun color cathode ray tube Patent
[NASA-CASE-ERC-10098] c 09 N71-28618
Current dependent filter inductance
[NASA-CASE-ERC-10139] c 09 N72-17154
High voltage transistor amplifier with constant current load
[NASA-CASE-NPO-11023] c 09 N72-17155
Current steering commutator
[NASA-CASE-NPO-10743] c 08 N72-21199
Saturation current protection apparatus for saturable core transformers
[NASA-CASE-ERC-10075-2] c 09 N72-22196
Thermal to electrical power conversion system with solid-state switches with Seebeck effect compensation
[NASA-CASE-NPO-11388] c 03 N72-23048
Load current sensor for a series pulse width modulated power supply
[NASA-CASE-GSC-10656-1] c 09 N72-25249
Method and apparatus for limiting field emission current
[NASA-CASE-ERC-10015-2] c 10 N72-27246
Deposition apparatus
[NASA-CASE-LAR-10541-1] c 15 N72-32487
Lightning current measuring systems
[NASA-CASE-KSC-10807-1] c 33 N75-26246
Overload protection system for power inverter
[NASA-CASE-NPO-13872-1] c 33 N78-10377
Shunt regulation electric power system
[NASA-CASE-GSC-10135] c 33 N78-17296
Lightning current waveform measuring system
[NASA-CASE-KSC-11018-1] c 33 N79-10337
Electroexplosive device
[NASA-CASE-NPO-13858-1] c 28 N79-11231
Remotes lightning monitor system
[NASA-CASE-KSC-11031-1] c 33 N79-11315
Lightning current detector
[NASA-CASE-KSC-11057-1] c 33 N79-14305
Driver for solar cell I-V characteristic plots
[NASA-CASE-NPO-14096-1] c 44 N80-18551
Electrical power generating system --- for windpowered generation
[NASA-CASE-MFS-24368-3] c 33 N81-22280
Hybrid power semiconductor switch
[NASA-CASE-LEW-13922-1] c 33 N84-11389

ELECTRIC DISCHARGES

Electrical discharge apparatus for forming Patent
[NASA-CASE-XMF-00375] c 15 N70-34249
High voltage pulse generator Patent
[NASA-CASE-MS-12178-1] c 09 N71-13518
Pulse generating circuit employing switch means on ends of delay line for alternately charging and discharging same Patent
[NASA-CASE-XNP-00745] c 10 N71-28960
Rapidly pulsed, high intensity, incoherent light source
[NASA-CASE-XLE-2529-3] c 33 N74-20859
Voltage feed through apparatus having reduced partial discharge
[NASA-CASE-GSC-12347-1] c 33 N80-18286

ELECTRIC ENERGY STORAGE

Apparatus for measuring current flow Patent
[NASA-CASE-XGS-02439] c 14 N71-19431
Lead-oxygen dc power supply system having a closed loop oxygen and water system
[NASA-CASE-MFS-23059-1] c 44 N76-27664
Electrically rechargeable REDOX flow cell
[NASA-CASE-LEW-12220-1] c 44 N77-14581
Gels as battery separators for soluble electrode cells
[NASA-CASE-LEW-12364-1] c 44 N77-22606
Electrochemical cell for rebalancing REDOX flow system
[NASA-CASE-LEW-13150-1] c 44 N79-26474
Toroidal cell and battery --- storage battery for high amp-hour load applications
[NASA-CASE-LEW-12918-1] c 44 N81-24521

ELECTRIC EQUIPMENT

Ac power amplifier Patent Application
[NASA-CASE-LAR-10218-1] c 09 N70-34559
Generator for a space power system Patent
[NASA-CASE-XLE-04250] c 09 N71-20446
High impedance measuring apparatus Patent
[NASA-CASE-XMS-08589-1] c 09 N71-20569

Regulated power supply Patent
[NASA-CASE-XMS-01991] c 09 N71-21449
Method for improving the signal-to-noise ratio of the Wheatstone bridge type bolometer Patent
[NASA-CASE-XLA-02810] c 14 N71-25901
Buck boost voltage regulation circuit Patent
[NASA-CASE-GSC-10735-1] c 10 N71-26085
Electronically resettable fuse Patent
[NASA-CASE-XGS-11177] c 09 N71-27001
Voltage regulator Patent
[NASA-CASE-ERC-10113] c 09 N71-27053
Digital pulse width selection circuit Patent
[NASA-CASE-XLA-07788] c 09 N71-29139
Solar energy powered heliotrope
[NASA-CASE-GSC-10945-1] c 21 N72-31637
Temperature compensated light source using a light emitting diode
[NASA-CASE-ARC-10467-1] c 09 N73-14214
Hermetically sealed semiconductor
[NASA-CASE-GSC-10791-1] c 15 N73-14469
Overvoltage protection network
[NASA-CASE-ARC-10197-1] c 33 N74-17929
Sprag solenoid brake --- development and operations of electrically controlled brake
[NASA-CASE-MFS-21846-1] c 37 N74-26976
Shock absorbing mount for electrical components
[NASA-CASE-NPO-13253-1] c 37 N75-18573
Self-regulating proportionally controlled heating apparatus and technique
[NASA-CASE-GSC-11752-1] c 77 N75-20140

ELECTRIC EQUIPMENT TESTS

Test fixture for pellet-like electrical elements
[NASA-CASE-XNP-06032] c 09 N69-21926
Pulse amplitude and width detector Patent
[NASA-CASE-XMF-06519] c 09 N71-12519
High power-high voltage waterload Patent
[NASA-CASE-XNP-05381] c 09 N71-20842

ELECTRIC FIELD STRENGTH

Apparatus for field strength measurement of a space vehicle Patent
[NASA-CASE-XLE-00820] c 14 N71-16014
Apparatus for measuring electric field strength on the surface of a model vehicle Patent
[NASA-CASE-XLE-02038] c 09 N71-16086
Floating two force component measuring device Patent
[NASA-CASE-XAC-04885] c 14 N71-23790
Apparatus for determining the deflection of an electron beam impinging on a target Patent
[NASA-CASE-XMF-06617] c 09 N71-24843

ELECTRIC FIELDS

Minimum induced drag airfoil body Patent
[NASA-CASE-XLA-00755] c 01 N71-13410
Minimum induced drag airfoil body Patent
[NASA-CASE-XLA-05828] c 01 N71-13411
Instrument for measuring potentials on two dimensional electric field plots Patent
[NASA-CASE-XLA-08493] c 10 N71-19421
Electron beam instrument for measuring electric fields Patent
[NASA-CASE-XMF-10289] c 14 N71-23699
Field ionization electrodes Patent
[NASA-CASE-ERC-10013] c 09 N71-26678
Determining distance to lightning strokes from a single station
[NASA-CASE-KSC-10698] c 07 N73-20175
Rocket borne instrument to measure electric fields inside electrified clouds
[NASA-CASE-KSC-10730-1] c 14 N73-32318
Electric field measuring and display system --- for cloud formations
[NASA-CASE-KSC-10731-1] c 33 N74-27862
Lightning discharge identification system
[NASA-CASE-KSC-11099-1] c 47 N82-24779

ELECTRIC FILTERS

Static inverters which sum a plurality of waves Patent
[NASA-CASE-XMF-00663] c 08 N71-18752
Remodulator filter Patent
[NASA-CASE-NPO-10198] c 09 N71-24806
RC networks and amplifiers employing the same
[NASA-CASE-XAC-05462-2] c 10 N72-17171
Multiloop RC active filter apparatus having low parameter sensitivity with low amplifier gain
[NASA-CASE-ARC-10192] c 09 N72-21245
Radio frequency filter device
[NASA-CASE-XLA-02609] c 09 N72-25256
Filter for third order phase locked loops
[NASA-CASE-NPO-11941-1] c 10 N73-27171

ELECTRIC FURNACES

High gradient directional solidification furnace --- for space processing
[NASA-CASE-MFS-25963-1] c 35 N84-16531

ELECTRIC FUSES

Electrical load protection device Patent
[NASA-CASE-MS-12135-1] c 09 N71-12526

- Diode and protection fuse unit Patent
[NASA-CASE-XKS-03381] c 09 N71-22796
- Fused switch
[NASA-CASE-XMS-01244-1] c 33 N79-33393
- ELECTRIC GENERATORS**
- Regulated dc to dc converter
[NASA-CASE-XGS-03429] c 03 N69-21330
- Generator for a space power system Patent
[NASA-CASE-XLE-04250] c 09 N71-20446
- Solid state pulse generator with constant output width, for variable input width, in nanosecond range Patent
[NASA-CASE-XGS-03427] c 10 N71-23029
- Continuous turning slip ring assembly Patent
[NASA-CASE-XMF-01049] c 15 N71-23049
- Positive dc to positive dc converter Patent
[NASA-CASE-XMF-14301] c 09 N71-23188
- High temperature ferromagnetic cobalt-base alloy Patent
[NASA-CASE-XLE-03629] c 17 N71-23248
- Variable width pulse integrator Patent
[NASA-CASE-XLA-03356] c 10 N71-23315
- Power system with heat pipe liquid coolant lines Patent
[NASA-CASE-MFS-14114-2] c 09 N71-24807
- RC rate generator for slow speed measurement Patent
[NASA-CASE-XMF-02966] c 10 N71-24863
- Pulse width inverter Patent
[NASA-CASE-MFS-10068] c 10 N71-25139
- Multiple varactor frequency doubler Patent
[NASA-CASE-XMF-04958-1] c 10 N71-26414
- Failure sensing and protection circuit for converter networks Patent
[NASA-CASE-GSC-10114-1] c 10 N71-27366
- Power system with heat pipe liquid coolant lines Patent
[NASA-CASE-MFS-14114] c 33 N71-27862
- Load-insensitive electrical device
[NASA-CASE-XER-11046] c 09 N72-22203
- Controllable load insensitive power converters
[NASA-CASE-ERC-10268] c 09 N72-25252
- A dc to ac to dc converter having transistor synchronous rectifiers
[NASA-CASE-GSC-11126-1] c 09 N72-25253
- Electromagnetic wave energy converter
[NASA-CASE-GSC-11394-1] c 09 N73-32109
- Heat operated cryogenic electrical generator
[NASA-CASE-NPO-13303-1] c 20 N75-24837
- Electric power generation system directory from laser power
[NASA-CASE-NPO-13308-1] c 36 N75-30524
- Smoke generator
[NASA-CASE-ARC-10905-1] c 37 N77-13418
- Electro-mechanical sine/cosine generator
[NASA-CASE-LAR-11389-1] c 33 N77-26387
- Wind wheel electric power generator
[NASA-CASE-MFS-23515-1] c 44 N80-21828
- Natural turbulence electrical power generator --- using wave action or random motion
[NASA-CASE-LAR-11551-1] c 44 N80-29834
- Electrical power generating system --- for windpowered generation
[NASA-CASE-MFS-24368-3] c 33 N81-22280
- Linear magnetic motor/generator --- to generate electric energy using magnetic flux for spacecraft power supply
[NASA-CASE-GSC-12518-1] c 33 N82-24421
- Electrical power generating system
[NASA-CASE-MFS-25302-1] c 33 N83-28319
- Control system for an induction motor with energy recovery
[NASA-CASE-MFS-25477-1] c 33 N84-14424
- ELECTRIC IGNITION**
- Method of making a solid propellant rocket motor Patent
[NASA-CASE-XLA-04126] c 28 N71-26779
- ELECTRIC MOTOR VEHICLES**
- Automotive absorption air conditioner utilizing solar and motor waste heat
[NASA-CASE-NPO-15183-1] c 44 N82-26776
- ELECTRIC MOTORS**
- Bus voltage compensation circuit for controlling direct current motor
[NASA-CASE-XMS-04215-1] c 09 N69-39987
- Electronic motor control system Patent
[NASA-CASE-XMF-01129] c 09 N70-38712
- Electronic beam switching commutator Patent
[NASA-CASE-XGS-01451] c 09 N71-10677
- Regenerative braking system Patent
[NASA-CASE-XMF-01096] c 10 N71-16030
- Angular position and velocity sensing apparatus Patent
[NASA-CASE-XGS-05680] c 14 N71-17585
- Reversible current control apparatus Patent
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- Electrode and insulator with shielded dielectric junction
[NASA-CASE-XLE-03778] c 09 N69-21542
- Electrode for biological recording
[NASA-CASE-XMS-02872] c 05 N69-21925
- Bonding thermoelectric elements to nonmagnetic refractory metal electrodes
[NASA-CASE-XGS-04554] c 15 N69-39786
- Ionization vacuum gauge Patent
[NASA-CASE-XNP-00646] c 14 N70-35666
- Double optic system for ion engine Patent
[NASA-CASE-XNP-02839] c 28 N70-41922
- Didymium hydrate additive to nickel hydroxide electrodes Patent
[NASA-CASE-XGS-03505] c 03 N71-10608
- Focussing system for an ion source having apertured electrodes Patent
[NASA-CASE-XNP-03332] c 09 N71-10618
- Biomedical electrode arrangement Patent
[NASA-CASE-XFR-10856] c 05 N71-11189
- Electrode construction Patent
[NASA-CASE-ARC-10043-1] c 05 N71-11193
- Pressed disc type sensing electrodes with ion-screening means Patent
[NASA-CASE-XMS-04212-1] c 05 N71-12348
- Method of making electrical contact on silicon solar cell and resultant product Patent
[NASA-CASE-XLE-04787] c 03 N71-20492
- Arc electrode of graphite with ball tip Patent
[NASA-CASE-XLE-04786] c 09 N71-22987
- Sealing member and combination thereof and method of producing said sealing member Patent
[NASA-CASE-XMS-01625] c 15 N71-23022
- Automatic recording McLeod gauge Patent
[NASA-CASE-XLE-03280] c 14 N71-23093
- Flexible conductive disc electrode Patent
[NASA-CASE-FRC-10029] c 09 N71-24618
- Plated electrodes Patent
[NASA-CASE-XMS-04213-1] c 09 N71-26002
- Method and apparatus for attaching physiological monitoring electrodes Patent
[NASA-CASE-XFR-07658-1] c 05 N71-26293
- Field ionization electrodes Patent
[NASA-CASE-ERC-10013] c 09 N71-26678
- Method of making a perspiration resistant biopotential electrode
[NASA-CASE-MSC-90153-2] c 05 N72-25120
- Method of making dry electrodes
[NASA-CASE-FRC-10029-2] c 05 N72-25121
- Compressible biomedical electrode
[NASA-CASE-MSC-13648] c 05 N72-27103
- Method and apparatus for limiting field emission current
[NASA-CASE-ERC-10015-2] c 10 N72-27246
- Coaxial high density, hypervelocity plasma generator and accelerator with ionizable metal disc
[NASA-CASE-MFS-20589] c 25 N72-32688
- Ion thruster with a combination keeper electrode and electron baffle
[NASA-CASE-NPO-11880] c 28 N73-24783
- Wide temperature range electronic device with lead attachment
[NASA-CASE-ERC-10224-2] c 09 N73-27150

- Porus electrode comprising a bonded stack of pieces of corrugated metal foil
[NASA-CASE-GSC-11368-1] c 09 N73-32108
- High powered arc electrodes — producing solar simulator radiation
[NASA-CASE-LEW-11162-1] c 33 N74-12913
- Method of making porous conductive supports for electrodes — by electroforming and stacking nickel foils
[NASA-CASE-GSC-11367-1] c 44 N74-19692
- Insulated electrocardiographic electrodes — without paste electrolyte
[NASA-CASE-MSC-14339-1] c 05 N75-24716
- Readout electrode assembly for measuring biological impedance
[NASA-CASE-ARC-10816-1] c 35 N76-24525
- Gels as battery separators for soluble electrode cells
[NASA-CASE-LEW-12364-1] c 44 N77-22606
- Snap-in compressible biomedical electrode
[NASA-CASE-MSC-14623-1] c 52 N77-28717
- Apparatus for electrolytically tapered or contoured cavities
[NASA-CASE-XNP-06835-1] c 37 N80-14395
- Toroidal cell and battery — storage battery for high amp-hour load applications
[NASA-CASE-LEW-12918-1] c 44 N81-24521
- Catalyst surfaces for the chromous/chromic redox couple
[NASA-CASE-LEW-13148-2] c 44 N81-29524
- Microwave field effect transistor
[NASA-CASE-GSC-12442-1] c 33 N82-20398
- Method of making formulated plastic separators for soluble electrode cells
[NASA-CASE-LEW-12358-2] c 25 N82-21268
- Improved chromium electrodes for REDOX cells
[NASA-CASE-LEW-13653-1] c 44 N82-22672
- Multistage depressed collector for dual mode operation — for microwave transmitting tubes
[NASA-CASE-LEW-13282-1] c 33 N82-24415
- Alkaline electrochemical cells and method of making
[NASA-CASE-GSC-10349-1] c 44 N82-24645
- Ion beam textured graphite electrode plates — high efficiency electron tube devices
[NASA-CASE-LEW-12919-2] c 24 N82-26386
- Imaging X-ray spectrometer
[NASA-CASE-GSC-12682-1] c 35 N82-26629
- Closed loop electrostatic system
[NASA-CASE-NPO-15553-1] c 33 N83-12335
- A spillage detector for liquid chromatography systems
[NASA-CASE-MSC-20206-1] c 25 N83-29325
- Thermionic energy converters
[NASA-CASE-LEW-12443-1] c 44 N83-32175
- Hybrid power semiconductor switch
[NASA-CASE-LEW-13922-1] c 33 N84-11389
- Photoelectrochemical electrodes
[NASA-CASE-NPO-15458-1] c 25 N84-12262
- A multistage spent particle collector and a method for making same
[NASA-CASE-LEW-13914-1] c 35 N84-12447
- Electrodes for solid state devices
[NASA-CASE-NPO-15161-1] c 33 N84-16456

ELECTRODIALYSIS

- Aqueous alkali metal hydroxide insoluble cellulose ether membrane
[NASA-CASE-XGS-05584-1] c 25 N82-29370

ELECTROFORMING

- Method of electroforming a rocket chamber
[NASA-CASE-LEW-11118-1] c 20 N74-32919

ELECTROHYDRAULIC FORMING

- Electrical discharge apparatus for forming Patent
[NASA-CASE-XMF-00375] c 15 N70-34249

ELECTROHYDRODYNAMICS

- Electrohydrodynamic control valve Patent
[NASA-CASE-NPO-10416] c 12 N71-27332

ELECTROKINETICS

- Zeta potential flowmeter Patent
[NASA-CASE-XNP-06509] c 14 N71-23226

ELECTROLYSIS

- Passively regulated water electrolysis rocket engine Patent
[NASA-CASE-XGS-08729] c 28 N71-14044
- Combined electrolysis device and fuel cell and method of operation Patent
[NASA-CASE-XLE-01645] c 03 N71-20904
- Polymeric electrolytic hygrometer
[NASA-CASE-NPO-13948-1] c 35 N78-25391
- Trace water sensor
[NASA-CASE-NPO-15722-1] c 35 N83-20084

ELECTROLYTES

- Apparatus for measuring swelling characteristics of membranes
[NASA-CASE-XGS-03865] c 14 N69-21363
- Electrolytically regenerative hydrogen-oxygen fuel cell Patent
[NASA-CASE-XLE-04526] c 03 N71-11052

Sealed electrochemical cell provided with a flexible casing Patent
[NASA-CASE-XGS-01513] c 03 N71-23336

Compressible biomedical electrode
[NASA-CASE-MS-13648] c 05 N72-27103

Improved chromium electrodes for REDOX cells
[NASA-CASE-LEW-13653-1] c 44 N82-22672

Solid electrolyte cell
[NASA-CASE-NPO-15269-1] c 44 N82-29710

Polyvinyl alcohol battery separator containing inert filler
[NASA-CASE-LEW-13556-2] c 44 N83-29805

ELECTROLYTIC CELLS

Method of making emf cell
[NASA-CASE-LEW-11359-2] c 03 N72-20034

Electrolytic gas operated actuator
[NASA-CASE-NPO-11369] c 15 N73-13467

Electrolytic cell structure
[NASA-CASE-LAR-11042-1] c 33 N75-27252

Reconstituted asbestos matrix --- for use in fuel or electrolysis cells
[NASA-CASE-MS-12568-1] c 24 N76-14204

Catalyst surfaces for the chromous/chromic redox couple
[NASA-CASE-LEW-13148-1] c 33 N80-20487

Cell and method for electrolysis of water and anode
[NASA-CASE-MS-16394-1] c 28 N81-24280

Toroidal cell and battery --- storage battery for high amp-hour load applications
[NASA-CASE-LEW-12918-1] c 44 N81-24521

Solid electrolyte cell
[NASA-CASE-NPO-15269-1] c 44 N82-29710

Discharge cell for optogalvanic spectroscopy having orthogonal relationship between the probe laser and discharge axis
[NASA-CASE-NPO-16271-1] c 36 N84-15537

ELECTROMAGNETIC ABSORPTION

Multiple pass reimaging optical system
[NASA-CASE-ARC-10194-1] c 23 N73-20741

Method and apparatus for background signal reduction in opto-acoustic absorption measurement
[NASA-CASE-NPO-13683-1] c 35 N77-14411

Electromagnetic radiation energy arrangement --- coatings for solar energy absorption and infrared reflection
[NASA-CASE-WOO-00428-1] c 32 N79-19186

Electromagnetic power absorber
[NASA-CASE-NPO-13830-1] c 32 N80-14281

ELECTROMAGNETIC FIELDS

Tumbler system to provide random motion
[NASA-CASE-XGS-02437] c 15 N69-21472

Vacuum evaporator with electromagnetic ion steering Patent
[NASA-CASE-NPO-10331] c 09 N71-26701

Metallic intrusion detector system
[NASA-CASE-ARC-10265-1] c 10 N72-28240

Low power electromagnetic flowmeter providing accurate zero set
[NASA-CASE-ARC-10362-1] c 14 N73-32326

Electromagnetic flow rate meter --- for liquid metals
[NASA-CASE-LEW-10981-1] c 35 N74-21018

Microcomputerized electric field meter diagnostic and calibration system
[NASA-CASE-KSC-11035-1] c 35 N78-28411

Three phase power factor controller with induced EMF sensing
[NASA-CASE-MFS-25852-1] c 33 N83-17803

Induction heating gun
[NASA-CASE-LAR-13181-1] c 33 N83-29591

ELECTROMAGNETIC HAMMERS

Method and apparatus for precision sizing and joining of large diameter tubes Patent
[NASA-CASE-XMF-05114] c 15 N71-17650

Magnetomotive metal working device Patent
[NASA-CASE-XMF-03793] c 15 N71-24833

ELECTROMAGNETIC INTERFERENCE

Sealed cabinetry Patent
[NASA-CASE-MS-12168-1] c 09 N71-18600

Method of treating the surface of a glass member
[NASA-CASE-GSC-12110-1] c 27 N77-32308

ELECTROMAGNETIC MEASUREMENT

Method and apparatus for determining electromagnetic characteristics of large surface area passive reflectors Patent
[NASA-CASE-XGS-02608] c 07 N70-41678

Microcomputerized electric field meter diagnostic and calibration system
[NASA-CASE-KSC-11035-1] c 35 N78-28411

Lightning discharge identification system
[NASA-CASE-KSC-11099-1] c 47 N82-24779

ELECTROMAGNETIC NOISE

Parametric amplifiers with idler circuit feedback
[NASA-CASE-LAR-10253-1] c 09 N72-25258

Audio system with means for reducing noise effects
[NASA-CASE-NPO-11631] c 10 N73-12244

Filtering device --- removing electromagnetic noise from voice communication signals
[NASA-CASE-MFS-22729-1] c 32 N76-21366

Submillimeter wave Schottky barrier diode with low series resistance and low noise
[NASA-CASE-NPO-15935-1] c 33 N83-12334

ELECTROMAGNETIC PROPULSION

Hypervelocity gun --- using both electric and chemical energy for projectile propulsion
[NASA-CASE-XLE-03186-1] c 09 N79-21084

ELECTROMAGNETIC PUMPS

Multiducted electromagnetic pump Patent
[NASA-CASE-NPO-10755] c 15 N71-27084

ELECTROMAGNETIC RADIATION

Inflatable radar reflector unit Patent
[NASA-CASE-XMS-00893] c 07 N70-40063

Circulator having quarter wavelength resonant post and parametric amplifier circuits utilizing the same Patent
[NASA-CASE-XNP-02140] c 09 N71-23097

Electromagnetic polarization systems and methods Patent
[NASA-CASE-GSC-10021-1] c 09 N71-24595

Antenna design for surface wave suppression Patent
[NASA-CASE-XLA-10772] c 07 N71-28980

Multiple reflection conical microwave antenna
[NASA-CASE-NPO-11661] c 07 N73-14130

Method and apparatus for measuring electromagnetic radiation
[NASA-CASE-LEW-11159-1] c 14 N73-28488

Hyperthermia heating apparatus --- cancer therapy
[NASA-CASE-NPO-14549-2] c 52 N82-33996

Inelastic tunnel diodes
[NASA-CASE-LEW-13833-1] c 33 N83-25983

ELECTROMAGNETIC SHIELDING

Method of making shielded flat cable Patent
[NASA-CASE-MFS-13687] c 09 N71-28691

Wire stripper
[NASA-CASE-FRC-10111-1] c 37 N79-10419

Shielded conductor cable system
[NASA-CASE-MS-12745-1] c 33 N81-27397

ELECTROMAGNETIC WAVE FILTERS

Laser camera and diffusion filter therefore Patent
[NASA-CASE-NPO-10417] c 16 N71-33410

ELECTROMAGNETIC WAVE TRANSMISSION

Method and apparatus for determining electromagnetic characteristics of large surface area passive reflectors Patent
[NASA-CASE-XGS-02608] c 07 N70-41678

Gyrottron transmitting tube
[NASA-CASE-LEW-13429-1] c 33 N83-31952

ELECTROMAGNETISM

Detenting servomotor Patent
[NASA-CASE-XNP-06936] c 15 N71-24695

Linear magnetic bearing
[NASA-CASE-GSC-12517-1] c 37 N83-32067

ELECTROMAGNETS

Electromagnetic mirror drive system
[NASA-CASE-XLA-03724] c 14 N69-27461

Solenoid construction Patent
[NASA-CASE-XNP-01951] c 09 N70-41929

Position sensing device employing misaligned magnetic field generating and detecting apparatus Patent
[NASA-CASE-XGS-07514] c 23 N71-16099

Safe-arm initiator Patent
[NASA-CASE-LAR-10372] c 09 N71-18599

Magnetic bearing --- for supplying magnetic fluxes
[NASA-CASE-GSC-11079-1] c 37 N75-18574

Linear magnetic bearings --- active magnetic suspension of armatures
[NASA-CASE-GSC-12582-1] c 37 N81-18469

Linear magnetic bearings
[NASA-CASE-GSC-12582-2] c 37 N83-13460

ELECTROMECHANICAL DEVICES

Electromechanical actuator
[NASA-CASE-XNP-05975] c 15 N69-23185

Bimetallic power controlled actuator
[NASA-CASE-XNP-09776] c 09 N69-39929

Apparatus for coupling a plurality of ungrounded circuits to a grounded circuit Patent
[NASA-CASE-XAC-00086] c 09 N70-33182

Apparatus for controlling the velocity of an electromechanical drive for interferometers and the like Patent
[NASA-CASE-XGS-03532] c 14 N71-17627

Mechanical actuator Patent
[NASA-CASE-XGS-04548] c 15 N71-24045

Transverse piezoresistance and pinch effect electromechanical transducers Patent
[NASA-CASE-ERC-10088] c 26 N71-25490

Electromechanical control actuator system Patent
[NASA-CASE-ERC-10022] c 15 N71-26635

Pressure sensitive transducers Patent
[NASA-CASE-ERC-10087] c 14 N71-27334

Electro-mechanical sine/cosine generator
[NASA-CASE-LAR-10503-1] c 09 N72-21248

Ferrofluidic solenoid
[NASA-CASE-NPO-11738-1] c 09 N73-30185

Electro-mechanical sine/cosine generator
[NASA-CASE-LAR-11389-1] c 33 N77-26387

Rotary electric device
[NASA-CASE-GSC-12138-1] c 33 N79-20314

Coal-shale interface detection system
[NASA-CASE-MFS-23720-2] c 43 N80-14423

Coal-shale interface detector
[NASA-CASE-MFS-23720-1] c 43 N80-23711

Magnetic field control --- electromechanical torquing device
[NASA-CASE-MFS-23828-1] c 33 N82-26569

Variable length strut with longitudinal compliance and locking capability --- constructing truss and beam structures in space and interconnecting an orbit transfer vehicle and a payload
[NASA-CASE-MFS-25907-1] c 37 N83-31019

Piezoelectric composite materials
[NASA-CASE-LEW-12582-1] c 76 N83-34796

Memory metal actuator --- for use in electromechanical servocontrol systems
[NASA-CASE-NPO-15960-1] c 37 N83-36485

ELECTROMETERS

Vibrating element electrometer with output signal magnified over input signal by a function of the mechanical Q of the vibrating element Patent
[NASA-CASE-XAC-02807] c 09 N71-23021

Pyroelectric detector arrays
[NASA-CASE-LAR-12363-1] c 35 N82-31659

ELECTROMIGRATION

Electromigration process for the purification of molten silicon during crystal growth
[NASA-CASE-NPO-14831-1] c 76 N82-30105

ELECTROMOTIVE FORCES

Heat activated cell Patent
[NASA-CASE-LEW-11359] c 03 N71-28579

ELECTRON ATTACHMENT

High resolution threshold photoelectron spectroscopy by electron attachment
[NASA-CASE-NPO-14078-1] c 72 N80-14877

ELECTRON BEAM WELDING

Split welding chamber Patent
[NASA-CASE-LEW-11531] c 15 N71-14932

Device for preventing high voltage arcing in electron beam welding Patent
[NASA-CASE-XMF-08522] c 15 N71-19486

ELECTRON BEAMS

Electronic beam switching commutator Patent
[NASA-CASE-XGS-01451] c 09 N71-10677

Method and means for an improved electron beam scanning system Patent
[NASA-CASE-ERC-10552] c 09 N71-12539

Electron beam instrument for measuring electric fields Patent
[NASA-CASE-XMF-10289] c 14 N71-23699

Apparatus for determining the deflection of an electron beam impinging on a target Patent
[NASA-CASE-XMF-06617] c 09 N71-24843

Infrared detectors
[NASA-CASE-LAR-10728-1] c 14 N73-12445

Electron beam controller --- using magnetic field to refocus spent electron beam in microwave oscillator tube
[NASA-CASE-LEW-11617-1] c 33 N74-10195

Image tube --- deriving electron beam replica of image
[NASA-CASE-GSC-11602-1] c 33 N74-21850

Very high intensity light source using a cathode ray tube --- electron beams
[NASA-CASE-XNP-01296] c 33 N75-27250

Coupled cavity traveling wave tube with velocity tapering
[NASA-CASE-LEW-12296-1] c 33 N80-19425

A linearized traveling wave amplifier with hard limiter characteristics
[NASA-CASE-LEW-13981-1] c 33 N83-25984

Low energy electron magnetometer using a monoenergetic electron beam
[NASA-CASE-LAR-12706-1] c 35 N84-12444

ELECTRON BOMBARDMENT

Ion thruster cathode
[NASA-CASE-XLE-07087] c 06 N69-39889

Device for measuring electron-beam intensities and for subjecting materials to electron irradiation in an electron microscope
[NASA-CASE-XGS-01725] c 14 N69-39982

Electron bombardment ion engine Patent
[NASA-CASE-XNP-04124] c 28 N71-21822

Electronic cathode having a brush-like structure and a relatively thick oxide emissive coating Patent
[NASA-CASE-XLE-04501] c 09 N71-23190

Single grid accelerator for an ion thruster
[NASA-CASE-XLE-10453-2] c 28 N73-27699

Containerless high temperature calorimeter apparatus
[NASA-CASE-MFS-23923-1] c 35 N81-19426

- Ion beam textured graphite electrode plates --- high efficiency electron tube devices
[NASA-CASE-LEW-12919-2] c 24 N82-26386
- Mechanical bonding of metal method
[NASA-CASE-LEW-12941-1] c 26 N83-10170
- ELECTRON CAPTURE**
Multistage depressed collector for dual mode operation --- for microwave transmitting tubes
[NASA-CASE-LEW-13282-1] c 33 N82-24415
- ELECTRON DISTRIBUTION**
Measurement of plasma temperature and density using radiation absorption
[NASA-CASE-ARC-10598-1] c 75 N74-30156
- ELECTRON EMISSION**
Triode thermionic energy converter
[NASA-CASE-XLE-01015] c 03 N69-39898
- ELECTRON ENERGY**
Low energy electron magnetometer using a monoenergetic electron beam
[NASA-CASE-LAR-12706-1] c 35 N84-12444
- Hollow cathode apparatus
[NASA-CASE-NPO-15560-1] c 75 N84-16993
- ELECTRON FLUX DENSITY**
Device for measuring electron-beam intensities and for subjecting materials to electron irradiation in an electron microscope
[NASA-CASE-XGS-01725] c 14 N69-39982
- ELECTRON IRRADIATION**
Ion rocket Patent
[NASA-CASE-XLE-00376] c 28 N70-37245
- ELECTRON MICROSCOPES**
Device for measuring electron-beam intensities and for subjecting materials to electron irradiation in an electron microscope
[NASA-CASE-XGS-01725] c 14 N69-39982
- Method of forming aperture plate for electron microscope
[NASA-CASE-ARC-10448-2] c 74 N75-12732
- Electron microscope aperture system
[NASA-CASE-ARC-10448-3] c 35 N77-14408
- ELECTRON MICROSCOPY**
Synchronized voltage contrast display analysis system
[NASA-CASE-NPO-14567-1] c 33 N83-18996
- ELECTRON PHOTON CASCADES**
Resistive anode image converter
[NASA-CASE-HQN-10876-1] c 33 N76-27473
- ELECTRON PLASMA**
Method and apparatus for producing a plasma Patent
[NASA-CASE-XLA-00147] c 25 N70-34661
- ELECTRON SCATTERING**
Means and method for calibrating a photon detector utilizing electron-photon coincidence
[NASA-CASE-NPO-15644-1] c 72 N82-24953
- ELECTRON SOURCES**
Electron microscope aperture system
[NASA-CASE-ARC-10448-3] c 35 N77-14408
- ELECTRON TRANSFER**
Process for reducing secondary electron emission Patent
[NASA-CASE-XNP-09469] c 24 N71-25555
- ELECTRON TRANSITIONS**
Diatomic infrared gasdynamic laser --- for producing different wavelengths
[NASA-CASE-ARC-10370-1] c 36 N75-31426
- ELECTRON TUBES**
Direct radiation cooling of the collector of linear beam tubes
[NASA-CASE-XNP-09227] c 15 N69-24319
- Radiant heater having formed filaments Patent
[NASA-CASE-XLE-00387] c 33 N70-34812
- Ion sputter textured graphite --- anode collector plates in electron tube devices
[NASA-CASE-LEW-12919-1] c 24 N83-10117
- Gyrotron transmitting tube
[NASA-CASE-LEW-13429-1] c 33 N83-31952
- ELECTRON TUNNELING**
Doped Josephson tunneling junction for use in a sensitive IR detector
[NASA-CASE-NPO-13348-1] c 33 N75-31332
- Laser activated MTOS microwave device
[NASA-CASE-NPO-16112-1] c 36 N84-12463
- ELECTRONIC CONTROL**
Monopulse system with an electronic scanner
[NASA-CASE-XGS-05582] c 07 N69-27460
- Electronic motor control system Patent
[NASA-CASE-XMF-01129] c 09 N70-38712
- Phase multiplying electronic scanning system Patent
[NASA-CASE-NPO-10302] c 10 N71-26142
- Ion beam deflector Patent
[NASA-CASE-LEW-10689-1] c 28 N71-26173
- Peak acceleration limiter for vibrational tester Patent
[NASA-CASE-NPO-10556] c 14 N71-27185
- Digital control and information system
[NASA-CASE-NPO-11016] c 08 N72-31226
- Electronic system for high power load control --- solar arrays
[NASA-CASE-NPO-15358-1] c 33 N83-27126
- ELECTRONIC EQUIPMENT**
Monopulse system with an electronic scanner
[NASA-CASE-XGS-05582] c 07 N69-27460
- Pulse activated polarographic hydrogen detector Patent
[NASA-CASE-XMF-06531] c 14 N71-17575
- Stable amplifier having a stable quiescent point Patent
[NASA-CASE-XGS-02812] c 09 N71-19466
- Static inverter Patent
[NASA-CASE-XGS-05289] c 09 N71-19470
- Circulator having quarter wavelength resonant post and parametric amplifier circuits utilizing the same Patent
[NASA-CASE-XNP-02140] c 09 N71-23097
- Optimum predetection diversity receiving system Patent
[NASA-CASE-XGS-00740] c 07 N71-23098
- Electronic cathode having a brush-like structure and a relatively thick oxide emissive coating Patent
[NASA-CASE-XLE-04501] c 09 N71-23190
- Method and apparatus for varying thermal conductivity Patent
[NASA-CASE-XNP-05524] c 33 N71-24876
- A solid state acoustic variable time delay line Patent
[NASA-CASE-ERC-10032] c 10 N71-25900
- Automatic signal range selector for metering devices Patent
[NASA-CASE-XMS-06497] c 14 N71-26244
- Fringe counter for interferometers Patent
[NASA-CASE-LAR-10204] c 14 N71-27215
- Temperature regulation circuit Patent
[NASA-CASE-XNP-02792] c 14 N71-28958
- Method and apparatus for data compression by a decreasing slope threshold test
[NASA-CASE-NPO-10769] c 08 N72-11171
- Universal environment package with sectional component housing
[NASA-CASE-KSC-10031] c 15 N72-22486
- Lead attachment to high temperature devices
[NASA-CASE-ERC-10224] c 09 N72-25261
- Method and apparatus for detecting surface ions on silicon diodes and transistors
[NASA-CASE-ERC-10325] c 15 N72-25457
- Versatile arithmetic unit for high speed sequential decoder
[NASA-CASE-NPO-11371] c 08 N73-12177
- Data processor with conditionally supplied clock signals
[NASA-CASE-GSC-10975-1] c 08 N73-13187
- Heat detection and compositions and devices therefor
[NASA-CASE-NPO-10764-1] c 14 N73-14428
- Phase control circuits using frequency multiplications for phased array antennas
[NASA-CASE-ERC-10285] c 10 N73-16206
- Junction range finder
[NASA-CASE-KSC-10108] c 14 N73-25461
- Electronic strain-level counter
[NASA-CASE-LAR-10756-1] c 32 N73-26910
- Automatic vehicle location system
[NASA-CASE-NPO-11850-1] c 32 N74-12912
- Automatic focus control for facsimile cameras
[NASA-CASE-LAR-11213-1] c 35 N75-15014
- Electronic analog divider
[NASA-CASE-LEW-11881-1] c 33 N77-17354
- Moisture content and gas sampling device --- to test hermetically sealed electronic equipment
[NASA-CASE-MS-18866-1] c 35 N82-26634
- ELECTRONIC EQUIPMENT TESTS**
Analog to digital converter tester Patent
[NASA-CASE-XLA-06713] c 14 N71-28991
- Signal conditioner test set
[NASA-CASE-KSC-10750-1] c 35 N75-12270
- Decommutator patchboard verifier
[NASA-CASE-KSC-11065-1] c 33 N81-26359
- Synchronized voltage contrast display analysis system
[NASA-CASE-NPO-14567-1] c 33 N83-18996
- ELECTRONIC FILTERS**
Self-tuning bandpass filter
[NASA-CASE-ARC-10264-1] c 09 N73-20231
- Capacitance multiplier and filter synthesizing network
[NASA-CASE-NPO-11948-1] c 33 N74-32712
- Notch filter
[NASA-CASE-MFS-23303-1] c 32 N77-18307
- ELECTRONIC MODULES**
Thermal conductive connection and method of making same Patent
[NASA-CASE-XMS-02087] c 09 N70-41717
- Solar cell submodule Patent
[NASA-CASE-XNP-05821] c 03 N71-11056
- Heat conductive resiliently compressible structure for space electronics package modules Patent
[NASA-CASE-MS-12389] c 33 N71-29052
- Tool for use in lifting pin supported objects
[NASA-CASE-NPO-13157-1] c 37 N74-32918
- Phase substitution of spare converter for a failed one of parallel phase staggered converters
[NASA-CASE-NPO-13812-1] c 33 N77-30365
- Method of making encapsulated solar cell modules
[NASA-CASE-LEW-12185-1] c 44 N78-25528
- Electronically scanned pressure sensor module with in situ calibration capability
[NASA-CASE-LAR-12230-1] c 35 N79-14347
- Module failure isolation circuit for paralleled inverters --- preventing system failure during power conditioning for spacecraft applications
[NASA-CASE-NPO-14000-1] c 33 N79-24254
- Circuit for automatic load sharing in parallel converter modules
[NASA-CASE-NPO-14056-1] c 33 N79-24257
- Method and apparatus for fabricating improved solar cell modules
[NASA-CASE-NPO-14416-1] c 44 N81-14389
- Redundant operation of counter modules
[NASA-CASE-NPO-14162-1] c 60 N81-15706
- ELECTRONIC PACKAGING**
Electrical feed-through connection for printed circuit boards and printed cable
[NASA-CASE-XMF-01483] c 14 N69-27431
- Capacitor and method of making same Patent
[NASA-CASE-LEW-10364-1] c 09 N71-13522
- Method of evaluating moisture barrier properties of encapsulating materials Patent
[NASA-CASE-NPO-10051] c 18 N71-24934
- Microelectronic module package Patent
[NASA-CASE-XMS-02182] c 10 N71-28783
- Frangible electrochemical cell
[NASA-CASE-XGS-10010] c 03 N72-15986
- Hermetically sealed semiconductor
[NASA-CASE-GSC-10791-1] c 15 N73-14469
- Circuit board package with wedge shaped covers
[NASA-CASE-MFS-21919-1] c 10 N73-25243
- Integrated circuit package with lead structure and method of preparing the same
[NASA-CASE-MFS-21374-1] c 33 N74-12951
- Tool for use in lifting pin supported objects
[NASA-CASE-NPO-13157-1] c 37 N74-32918
- Chassis unit insert tightening-extract device
[NASA-CASE-XMS-01077-1] c 37 N79-33467
- Computer circuit card puller
[NASA-CASE-FRC-11042-1] c 60 N82-24839
- Hermetically sealable package for hybrid solid-state electronic devices and the like
[NASA-CASE-MS-20181-1] c 33 N82-28549
- ELECTRONIC RECORDING SYSTEMS**
Propellant mass distribution metering apparatus Patent
[NASA-CASE-NPO-10185] c 10 N71-26339
- ELECTRONIC TRANSDUCERS**
Fiber optic vibration transducer and analyzer Patent
[NASA-CASE-XMF-02433] c 14 N71-10616
- Transducer circuit and catheter transducer Patent
[NASA-CASE-ARC-10132-1] c 09 N71-24597
- Failure sensing and protection circuit for converter networks Patent
[NASA-CASE-GSC-10114-1] c 10 N71-27366
- Electromagnetic transducer recording head having a laminated core section and tapered gap
[NASA-CASE-NPO-10711-1] c 35 N77-21392
- Distributed-switch Dicke radiometers
[NASA-CASE-GSC-12219-1] c 35 N80-18359
- ELECTRONS**
A multistage spent particle collector and a method for making same
[NASA-CASE-LEW-13914-1] c 35 N84-12447
- ELECTROPHORESIS**
Electrophoretic sample insertion --- device for uniformly distributing samples in flow path
[NASA-CASE-MFS-21395-1] c 25 N74-26948
- Apparatus for conducting flow electrophoresis in the substantial absence of gravity
[NASA-CASE-MFS-21394-1] c 34 N74-27744
- Automatic multiple-sample applicator and electrophoresis apparatus
[NASA-CASE-ARC-10991-1] c 25 N78-14104
- Portable electrophoresis apparatus using minimum electrolyte
[NASA-CASE-NPO-13274-1] c 25 N79-10163
- Microelectrophoretic apparatus and process
[NASA-CASE-ARC-11121-1] c 25 N79-14169
- Electrophoretic fractional elution apparatus employing a rotational seal fraction collector
[NASA-CASE-MFS-23284-1] c 37 N80-14397
- Method for separating biological cells --- suspended in aqueous polymer systems
[NASA-CASE-MFS-23883-1] c 51 N80-16715
- Electrophoresis device
[NASA-CASE-MFS-25426-1] c 25 N83-10126

ELECTROPHOTOMETERS

Static continuous electrophoresis device
[NASA-CASE-MFS-25306-1] c 25 N83-13187

ELECTROPHOTOMETERS

Method and device for detecting voids in low density material Patent
[NASA-CASE-MFS-20044] c 14 N71-28993

ELECTROPHYSIOLOGY

Flexible conductive disc electrode Patent
[NASA-CASE-FRC-10029] c 09 N71-24618

ELECTROPLATING

Method of plating copper on aluminum Patent
[NASA-CASE-XLA-08966-1] c 17 N71-25903
Method of making shielded flat cable Patent
[NASA-CASE-MFS-13687] c 09 N71-28691
Method and apparatus for sputtering utilizing an aperture electrode and a pulsed substrate bias
[NASA-CASE-LEW-10920-1] c 17 N73-24569
Catalyst surfaces for the chromous/chromic redox couple
[NASA-CASE-LEW-13148-2] c 44 N81-29524
Method of forming oxide coatings --- for solar collector heating panels
[NASA-CASE-LEW-13132-1] c 27 N83-29388

ELECTROSTATIC CHARGE

Electrostatic charged particle analyzer having deflection members shaped according to the periodic voltage applied thereto Patent
[NASA-CASE-XAC-05506-1] c 24 N71-16095
Electrostatic measurement system --- for contact-electrifying a dielectric
[NASA-CASE-MFS-22129-1] c 33 N75-18477
Use of glow discharge in fluidized beds
[NASA-CASE-ARC-11245-1] c 28 N82-18401

ELECTROSTATIC ENGINES

Colloid propulsion method and apparatus Patent
[NASA-CASE-XLE-00817] c 28 N70-33265
Ion thruster cathode Patent Application
[NASA-CASE-LEW-10814-1] c 28 N70-35422
Ion rocket Patent
[NASA-CASE-XLE-00376] c 28 N70-37245
Electrostatic ion rocket engine Patent
[NASA-CASE-XLE-02066] c 28 N71-15661

ELECTROSTATIC GENERATORS

Electrostatic plasma modulator for space vehicle re-entry communication Patent
[NASA-CASE-XLA-01400] c 07 N70-41331

ELECTROSTATIC PRECIPITATORS

Fine particulate capture device
[NASA-CASE-LEW-11583-1] c 35 N79-17192
Small conductive particle sensor --- microfiber size determination
[NASA-CASE-LAR-12552-1] c 35 N82-11431

ELECTROSTATIC PROBES

Apparatus for field strength measurement of a space vehicle Patent
[NASA-CASE-XLE-00820] c 14 N71-16014
Liquid-immersible electrostatic ultrasonic transducer
[NASA-CASE-LAR-12465-1] c 33 N82-26572

ELECTROSTATIC PROPULSION

Electrostatic thruster with improved insulators Patent
[NASA-CASE-XLE-01902] c 28 N71-10574
Annular slit colloid thruster Patent
[NASA-CASE-GSC-10709-1] c 28 N71-25213

ELECTROSTATIC SHIELDING

Ion beam thruster shield
[NASA-CASE-LEW-12082-1] c 20 N77-10148
Shielded conductor cable system
[NASA-CASE-MSC-12745-1] c 33 N81-27397
High voltage isolation transformer
[NASA-CASE-GSC-12817-1] c 33 N83-29590

ELECTROSTATICS

Controllable high voltage source having fast settling time
[NASA-CASE-GSC-11844-1] c 33 N75-19522
Closed loop electrostatic system
[NASA-CASE-NPO-15553-1] c 33 N83-12335

ELECTROTHERMAL ENGINES

Electro-thermal rocket Patent
[NASA-CASE-XLE-00267] c 28 N70-33356
Electrothermal rockets having improved heat exchangers Patent
[NASA-CASE-XLE-01783] c 28 N70-34175

ELEVATION

Optical tracking mount Patent
[NASA-CASE-MFS-14017] c 14 N71-26627
Emergency escape system Patent
[NASA-CASE-XKS-07814] c 15 N71-27067
Elevated waterproof access floor system and method of making the same
[NASA-CASE-ARC-11363-1] c 31 N83-28281

ELEVATORS (LIFTS)

Centrifuge mounted motion simulator Patent
[NASA-CASE-XAC-00399] c 11 N70-34815
Cable stabilizer for open shaft cable operated elevators
[NASA-CASE-KSC-10513] c 15 N72-25453

ELEVONS

High speed flight vehicle control Patent
[NASA-CASE-XLA-08967] c 02 N71-27088

ELLIPSES

Ellipsograph for pantograph Patent
[NASA-CASE-XLA-03102] c 14 N71-21079

ELLIPSOIDOMETERS

Remote sensing of vegetation and soil using microwave ellipsometry
[NASA-CASE-GSC-11976-1] c 43 N78-10529

ELONGATION

Strain gauge measuring techniques Patent
[NASA-CASE-XGS-04478] c 14 N71-24233
Amplifying ribbon extensometer
[NASA-CASE-LAR-11825-1] c 35 N77-22449

ELUTION

Amino acid analysis
[NASA-CASE-NPO-12130-1] c 25 N75-14844
Electrophoretic fractional elution apparatus employing a rotational seal fraction collector
[NASA-CASE-MFS-23284-1] c 37 N80-14397

EMERGENCIES

Silent emergency alarm system for schools and the like
[NASA-CASE-NPO-11307-1] c 10 N73-30205
Emergency space-suit helmet
[NASA-CASE-MSC-10954-1] c 54 N78-18761

EMERGENCY BREATHING TECHNIQUES

Resuscitation apparatus Patent
[NASA-CASE-XMS-01115] c 05 N70-39922

EMERGENCY LIFE SUSTAINING SYSTEMS

Orbital escape device Patent
[NASA-CASE-XMS-06162] c 31 N71-28851
Emergency lunar communications system
[NASA-CASE-MFS-21042] c 07 N72-25171
Emergency descent device
[NASA-CASE-MFS-23074-1] c 54 N77-21844

EMISSION SPECTRA

Spectral method for monitoring atmospheric contamination of inert-gas welding shields Patent
[NASA-CASE-XMF-02039] c 15 N71-15871

EMITTANCE

Process for applying black coating to metals Patent
[NASA-CASE-XLA-06199] c 15 N71-24875

EMITTERS

Coaxial inverted geometry transistor having buried emitter
[NASA-CASE-ARC-10330-1] c 09 N73-32112

EMULSIONS

Apparatus for obtaining isotropic irradiation of a specimen
[NASA-CASE-MFS-20095] c 24 N72-11595

ENAMELS

Refractory porcelain enamel passive control coating for high temperature alloys
[NASA-CASE-MFS-22324-1] c 27 N75-27160

ENCAPSULATING

Bacteriostatic conformal coating and methods of application Patent
[NASA-CASE-GSC-10007] c 18 N71-16046
Flexible, repairable, portable material for electrical connectors Patent
[NASA-CASE-XGS-05180] c 18 N71-25881
Orifice gross leak tester Patent
[NASA-CASE-ERC-10150] c 14 N71-28992
Solar cell matrix
[NASA-CASE-NPO-11190] c 03 N71-34044
Method of making encapsulated solar cell modules
[NASA-CASE-LEW-12185-1] c 44 N78-25528
Total immersion crystal growth --- using a melt covered with an encapsulating fluid
[NASA-CASE-NPO-15800-1] c 76 N83-15149

ENCLOSURES

Radio frequency shielded enclosure Patent
[NASA-CASE-XMF-09422] c 07 N71-19436
Totally confined explosive welding
[NASA-CASE-LAR-10941-2] c 37 N79-13364

ENDOSCOPES

Borescope with variable angle scope
[NASA-CASE-MFS-15162] c 14 N72-32452
Apparatus for endoscopic examination --- analysis of the propulsion system configuration and transmitter
[NASA-CASE-NPO-14092-1] c 52 N80-16725

ENDOTHERMIC REACTIONS

Ablation sensor
[NASA-CASE-XLA-01781] c 14 N69-39975

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Intruder detection system
[NASA-CASE-ARC-10097-2] c 07 N73-25160

ENERGY ABSORPTION

Non-reusable kinetic energy absorber Patent
[NASA-CASE-XLE-00810] c 15 N70-34861
Energy absorbing structure Patent Application
[NASA-CASE-MSC-12279-1] c 15 N70-35679
Apparatus for absorbing and measuring power Patent
[NASA-CASE-XLE-00720] c 14 N70-40201

Shock absorber Patent
[NASA-CASE-XMS-03722] c 15 N71-21530

Energy absorbing device Patent
[NASA-CASE-XMF-10040] c 15 N71-22877

Suspended mass impact damper Patent
[NASA-CASE-LAR-10193-1] c 15 N71-27146

Energy absorption device Patent
[NASA-CASE-XNP-01848] c 15 N71-28959

Impact energy absorbing system utilizing fractureable material
[NASA-CASE-NPO-10671] c 15 N72-20443

Docking structure for spacecraft
[NASA-CASE-MFS-20863] c 31 N73-26876

Metal shearing energy absorber
[NASA-CASE-HQN-10638-1] c 15 N73-30460

ENERGY CONSERVATION

Remote platform power conserving system
[NASA-CASE-GSC-11182-1] c 15 N75-13007
Energy saving electrical motor control system
[NASA-CASE-MFS-25560-1] c 33 N82-30472
System for indicating fuel-efficient aircraft altitude
[NASA-CASE-NPO-15351-2] c 06 N83-17536

ENERGY CONVERSION

Two-fluid magnetohydrodynamic system and method for thermal-electric power conversion Patent
[NASA-CASE-XNP-00644] c 03 N70-36803
Device for directionally controlling electromagnetic radiation Patent
[NASA-CASE-XLE-01716] c 09 N70-40234
Electromagnetic wave energy converter
[NASA-CASE-GSC-11394-1] c 09 N73-32109
Electric power generation system directory from laser power
[NASA-CASE-NPO-13308-1] c 36 N75-30524
Mechanical thermal motor
[NASA-CASE-MFS-23062-1] c 37 N77-12402
Low to high temperature energy conversion system
[NASA-CASE-NPO-13510-1] c 44 N77-32581
Solar energy collection system
[NASA-CASE-NPO-13810-1] c 44 N77-32582

ENERGY CONVERSION EFFICIENCY

Triode thermionic energy converter
[NASA-CASE-XLE-01015] c 03 N69-39898
Energy conversion apparatus Patent
[NASA-CASE-XLE-00212] c 03 N70-34134
Electronic amplifier with power supply switching Patent
[NASA-CASE-XMS-00945] c 09 N71-10798
Energy storage apparatus
[NASA-CASE-GSC-12030-1] c 44 N78-24608
Method of construction of a multi-cell solar array
[NASA-CASE-MFS-23540-1] c 44 N79-26475
Self-reconfiguring solar cell system
[NASA-CASE-LEW-12586-1] c 44 N80-14472
MHD electrical generator
[NASA-CASE-NPO-15399-1] c 75 N82-24079
Efficiency of silicon solar cells containing chromium
[NASA-CASE-NPO-15179-1] c 44 N82-26777
Power control for ac motor
[NASA-CASE-MFS-25862] c 33 N83-28329
Thermionic energy converters
[NASA-CASE-LEW-12443-1] c 44 N83-32175

ENERGY DISSIPATION

Frangible tube energy dissipation Patent
[NASA-CASE-XLA-00754] c 15 N70-34850
Wingtip vortex dissipator for aircraft
[NASA-CASE-LAR-11645-1] c 02 N77-10001
Motion restraining device
[NASA-CASE-NPO-13619-1] c 37 N78-16369

ENERGY DISTRIBUTION

Method and apparatus for measurement of trap density and energy distribution in dielectric films
[NASA-CASE-NPO-13443-1] c 76 N76-20994
Spatial energy distribution --- scanning a tunable diode laser beam automatically
[NASA-CASE-LAR-12631-1] c 35 N82-18557

ENERGY LEVELS

High resolution threshold photoelectron spectroscopy by electron attachment
[NASA-CASE-NPO-14078-1] c 72 N80-14877
Low energy electron magnetometer using a monoenergetic electron beam
[NASA-CASE-LAR-12706-1] c 35 N84-12444

ENERGY POLICY

Solar energy power system
[NASA-CASE-MFS-21628-2] c 44 N76-23675
Thermal energy storage system --- operating on superheating of liquids
[NASA-CASE-MFS-23167-1] c 44 N76-31667
Mount for continuously orienting a collector dish in a system adapted to perform both diurnal and seasonal solar tracking
[NASA-CASE-MFS-23267-1] c 35 N77-20401
Lightweight reflector assembly
[NASA-CASE-NPO-13707-1] c 74 N77-28933

Solar photolysis of water
[NASA-CASE-NPO-13675-1] c 44 N77-32580
Selective coating for solar panels --- using black chrome and black nickel
[NASA-CASE-LEW-12159-1] c 44 N78-19599
Solar pond
[NASA-CASE-NPO-13581-2] c 44 N78-31525
Non-tracking solar energy collector system
[NASA-CASE-NPO-13813-1] c 44 N78-31526
Coal desulfurization process
[NASA-CASE-NPO-13937-1] c 44 N78-31527
Primary reflector for solar energy collection systems
[NASA-CASE-NPO-13579-4] c 44 N79-14529
Primary reflector for solar energy collection systems and method of making same
[NASA-CASE-NPO-13579-3] c 44 N79-24432
Solar energy collection system
[NASA-CASE-NPO-13579-2] c 44 N79-24433
Combined solar collector and energy storage system
[NASA-CASE-LAR-12205-1] c 44 N80-20810
Wind wheel electric power generator
[NASA-CASE-MFS-23515-1] c 44 N80-21828
Induced junction solar cell and method of fabrication
[NASA-CASE-NPO-13786-1] c 44 N80-29835
Solar energy receiver for a Stirling engine
[NASA-CASE-NPO-14619-1] c 44 N81-17518
Copper doped polycrystalline silicon solar cell
[NASA-CASE-NPO-14670-1] c 44 N81-19558
Solar heated fluidized bed gasification system
[NASA-CASE-NPO-15071-1] c 44 N82-16475
Supercritical multicomponent solvent coal extraction
[NASA-CASE-NPO-15767-1] c 23 N84-16255

ENERGY SOURCES
Passive synchronized spike generator with high input impedance and low output impedance and capacitor power supply Patent
[NASA-CASE-XGS-03632] c 09 N71-23311
Controllable high voltage source having fast settling time
[NASA-CASE-GSC-11844-1] c 33 N75-19522
Wingtip vortex turbine
[NASA-CASE-LAR-12544-1] c 07 N81-27096

ENERGY STORAGE
Switching mechanism with energy storage means Patent
[NASA-CASE-XGS-00473] c 03 N70-38713
Stored charge transistor
[NASA-CASE-NPO-11156-2] c 33 N75-31331
Mechanical energy storage device for hip disarticulation
[NASA-CASE-ARC-10916-1] c 52 N78-10686
Energy storage apparatus
[NASA-CASE-GSC-12030-1] c 44 N78-24608
Rotatable mass for a flywheel
[NASA-CASE-MFS-23051-1] c 37 N79-10422
Combined solar collector and energy storage system
[NASA-CASE-LAR-12205-1] c 44 N80-20810
Atomic hydrogen storage method and apparatus
[NASA-CASE-LEW-12081-3] c 28 N81-14103

ENERGY TECHNOLOGY
Solar energy collection system
[NASA-CASE-NPO-13810-1] c 44 N77-32582
Method for producing solar energy panels by automation
[NASA-CASE-LEW-12541-1] c 44 N78-25529
Hydrogen-fueled engine
[NASA-CASE-NPO-13763-1] c 44 N78-33526
Surfactant-assisted liquefaction of particulate carbonaceous substances
[NASA-CASE-NPO-13904-1] c 25 N79-11152
Back wall solar cell
[NASA-CASE-LEW-12236-2] c 44 N79-14528
Solar cell module assembly jig
[NASA-CASE-XGS-00829-1] c 44 N79-19447
Solar energy collection system
[NASA-CASE-NPO-13579-2] c 44 N79-24433
Solar concentrator
[NASA-CASE-MFS-23727-1] c 44 N80-14473
Method for forming a solar array strip
[NASA-CASE-NPO-13652-3] c 44 N80-14474

ENERGY TRANSFER
Solar energy absorber
[NASA-CASE-MFS-22743-1] c 44 N76-22657

ENGINE AIRFRAME INTEGRATION
Wingtip vortex propeller
[NASA-CASE-LAR-13019-1] c 02 N84-20495

ENGINE ANALYZERS
Indicated mean-effective pressure instrument
[NASA-CASE-LEW-12661-1] c 35 N79-14345

ENGINE CONTROL
Regenerative braking system Patent
[NASA-CASE-XMF-01096] c 10 N71-16030
Integrated lift/drag controller for aircraft
[NASA-CASE-ARC-10456-1] c 05 N75-12930
Power control for hot gas engines
[NASA-CASE-NPO-14220-1] c 37 N81-14318

Apparatus for sensor failure detection and correction in a gas turbine engine control system
[NASA-CASE-LEW-12907-2] c 07 N81-19115
Control means for a gas turbine engine
[NASA-CASE-LEW-14586-1] c 07 N83-31603

ENGINE COOLANTS
Injector-valve device Patent
[NASA-CASE-XLE-00303] c 15 N70-36535
Injector for bipropellant rocket engines Patent
[NASA-CASE-XMF-00148] c 28 N70-38710

ENGINE DESIGN
Gas turbine combustion apparatus Patent
[NASA-CASE-XLE-103477-1] c 28 N71-20330
Construction and method of arranging a plurality of ion engines to form a cluster Patent
[NASA-CASE-XNP-02923] c 28 N71-23081
Space vehicle system
[NASA-CASE-MSG-12561-1] c 18 N76-17185
Solid propellant motor
[NASA-CASE-NPO-11458A] c 20 N78-32179
Hydrogen-fueled engine
[NASA-CASE-NPO-13763-1] c 44 N78-33526
Method and apparatus for rapid thrust increases in a turbofan engine
[NASA-CASE-LEW-12971-1] c 07 N80-18039
Free-piston regenerative hot gas hydraulic engine
[NASA-CASE-LEW-12274-1] c 37 N80-31790
Phase-angle controller for Stirling engines
[NASA-CASE-NPO-14388-1] c 37 N81-17432
Hot gas engine with dual crankshafts
[NASA-CASE-NPO-14221-1] c 37 N81-25370
Solar engine
[NASA-CASE-LAR-12148-1] c 44 N82-24640
Wingtip vortex propeller
[NASA-CASE-LAR-13019-1] c 02 N84-20495

ENGINE FAILURE
System for monitoring the presence of neutrals in a stream of ions Patent
[NASA-CASE-XNP-02592] c 24 N71-20518

ENGINE INLETS
Variably positioned guide vanes for aerodynamic choking
[NASA-CASE-LAR-10642-1] c 07 N74-31270
The engine air intake system
[NASA-CASE-ARC-10761-1] c 07 N77-18154
Self stabilizing sonic inlet
[NASA-CASE-LEW-11890-1] c 05 N79-24976

ENGINE MONITORING INSTRUMENTS
System for monitoring the presence of neutrals in a stream of ions Patent
[NASA-CASE-XNP-02592] c 24 N71-20518

ENGINE NOISE
Variably positioned guide vanes for aerodynamic choking
[NASA-CASE-LAR-10642-1] c 07 N74-31270
Variable thrust nozzle for quiet turbofan engine, and method of operating same
[NASA-CASE-LEW-12317-1] c 07 N78-17055
Multiple pure tone elimination strut assembly --- air breathing engines
[NASA-CASE-FRC-11062-1] c 71 N82-16800
Noise suppressor for turbo fan jet engines
[NASA-CASE-ARC-10812-1] c 07 N83-33884

ENGINE PARTS
Gas turbine engine with convertible accessories
[NASA-CASE-LEW-12390-1] c 07 N78-17056
Gas path seal
[NASA-CASE-NPO-12131-3] c 37 N80-18400
Method of protecting a surface with a silicon-slurry/aluminate coating --- coatings for gas turbine engine blades and vanes
[NASA-CASE-LEW-13343-1] c 27 N82-28441

ENGINE STARTERS
Portable device for use in starting air-start-units for aircraft and having cable lead testing capability
[NASA-CASE-FRC-10113-1] c 33 N80-26599

ENGINE TESTS
Electric propulsion engine test chamber Patent
[NASA-CASE-XLE-00252] c 11 N70-34844

ENGINEERING DRAWINGS
High-temperature, high-pressure spherical segment valve Patent
[NASA-CASE-XAC-00074] c 15 N70-34817
Lifting body Patent Application
[NASA-CASE-FRC-10063] c 01 N71-12217
Optical communications system Patent
[NASA-CASE-XLA-01090] c 07 N71-12389
Method of making a molded connector Patent
[NASA-CASE-XMF-03498] c 15 N71-15986

ENTHALPY
Enthalpy and stagnation temperature determination of a high temperature laminar flow gas stream Patent
[NASA-CASE-XLE-00266] c 14 N70-34156

ENTRAINMENT
Water separator
[NASA-CASE-XMS-01295-1] c 37 N79-21345

ENUMERATION

Apparatus and process for microbial detection and enumeration
[NASA-CASE-LAR-12709-1] c 35 N82-28604

ENVIRONMENTAL SIMULATION

Skeletal stressing method and apparatus Patent
[NASA-CASE-ARC-10100-1] c 05 N71-24738
Locomotion and restraint aid Patent
[NASA-CASE-ARC-10153] c 05 N71-28619

ENVIRONMENTAL SIMULATORS

Space simulator Patent
[NASA-CASE-NPO-10141] c 11 N71-24964

ENVIRONMENTAL CONTROL

Portable environmental control system Patent
[NASA-CASE-XMS-09632-1] c 05 N71-11203
Portable superclean air column device Patent
[NASA-CASE-XMF-03212] c 15 N71-22721
Thermal control panel Patent
[NASA-CASE-XLA-07728] c 33 N71-22890
Dual solid cryogenics for spacecraft refrigeration Patent
[NASA-CASE-GSC-10188-1] c 23 N71-24725
Active vibration isolator for flexible bodies Patent
[NASA-CASE-LAR-10106-1] c 15 N71-27169
Autoignition test cell Patent
[NASA-CASE-KSC-10198] c 11 N71-28629
Universal environment package with sectional component housing
[NASA-CASE-KSC-10031] c 15 N72-22486
Air conditioned suit Patent
[NASA-CASE-LAR-10076-1] c 05 N73-20137
Dual stage check valve
[NASA-CASE-MSG-13587-1] c 15 N73-30459
Space vehicle with artificial gravity and earth-like environment
[NASA-CASE-LEW-11101-1] c 31 N73-32750

ENVIRONMENTAL ENGINEERING

Thermal control wall panel Patent
[NASA-CASE-XLA-01243] c 33 N71-22792

ENVIRONMENTAL MONITORING

System for real-time crustal deformation monitoring
[NASA-CASE-NPO-14124-1] c 46 N80-14603

ENVIRONMENTAL TESTS

Multiple environment materials test chamber having a multiple port X-ray tube for irradiating a plurality of samples Patent
[NASA-CASE-XMS-02930] c 11 N71-23042
Hard space suit Patent
[NASA-CASE-XAC-07043] c 05 N71-23161
Flammability test chamber Patent
[NASA-CASE-KSC-10126] c 11 N71-24985
Multi axes vibration fixtures
[NASA-CASE-MFS-20242] c 14 N73-19421
Fixture for environmental exposure of structural materials under compression load
[NASA-CASE-LAR-12602-1] c 39 N83-32081

ENVIRONMENTS

Hermetically sealed elbow actuator
[NASA-CASE-MFS-14710] c 09 N72-22195

ENZYME ACTIVITY

Use of the enzyme hexokinase for the reduction of inherent light levels
[NASA-CASE-XGS-05533] c 04 N69-27487
Method of detecting and counting bacteria in body fluids
[NASA-CASE-GSC-11092-2] c 04 N73-27052

ENZYMES

Protein sterilization method of firefly luciferase using reduced pressure and molecular sieves
[NASA-CASE-GSC-10225-1] c 06 N73-27086

EPICYCLOIDS

Sequencing device utilizing planetary gear set
[NASA-CASE-MSG-19514-1] c 37 N79-20377

EPITAXY

Method for the preparation of inorganic single crystal and polycrystalline electronic materials
[NASA-CASE-XLE-02545-1] c 76 N79-21910
Epitaxial thinning process
[NASA-CASE-NPO-15786-1] c 25 N82-26397
Method of making macrocrystalline or single crystal semiconductive material and products produced thereby --- epitaxial substrates using low melting materials for photovoltaic cells
[NASA-CASE-NPO-15904-1] c 76 N83-21993

EPOXY COMPOUNDS

Synthesis of siloxane-containing epoxy polymers Patent
[NASA-CASE-MFS-13994-1] c 06 N71-11240
Siloxane containing epoxide compounds
[NASA-CASE-MFS-13994-2] c 06 N72-25148
Fire protection covering for small diameter missiles
[NASA-CASE-ARC-11104-1] c 15 N79-26100
Antenna grout replacement system
[NASA-CASE-NPO-15202-1] c 27 N83-34043
Polymers of phosphonylmethyl-2,4- and -2,6-diamino benzenes and the like
[NASA-CASE-ARC-11506-1] c 27 N84-12313

EPOXY RESINS

- Non-magnetic battery case Patent
[NASA-CASE-XGS-00886] c 03 N71-11053
- Sealing device for an electrochemical cell Patent
[NASA-CASE-XGS-02630] c 03 N71-22974
- Hydroforming techniques using epoxy molds Patent
[NASA-CASE-XLE-05641-1] c 15 N71-26346
- Pressure sensitive transducers Patent
[NASA-CASE-ERC-10087] c 14 N71-27334
- Epoxy-aziridine polymer product Patent
[NASA-CASE-NPO-10701] c 06 N71-28620
- Method of repairing discontinuity in fiberglass structures
[NASA-CASE-LAR-10416-1] c 24 N74-30001
- Transparent fire resistant polymeric structures
[NASA-CASE-ARC-10813-1] c 27 N76-16230
- Curing agent for polyepoxides and epoxy resins and composites cured therewith --- preventing carbon fiber release
[NASA-CASE-LEW-13226-1] c 27 N81-17260
- Universal connectors for joining stringers
[NASA-CASE-LAR-12744-1] c 37 N81-31551
- Toughening reinforced epoxy composites with brominated polymeric additives
[NASA-CASE-ARC-11427-1] c 24 N83-25791
- Method of neutralizing the corrosive surface of amine-cured epoxy resins
[NASA-CASE-GSC-12686-1] c 27 N83-34039
- Fluoroether modified epoxy composites
[NASA-CASE-ARC-11418-1] c 24 N84-11213
- Process for improving moisture resistance of epoxy resins by addition of chromium ions
[NASA-CASE-LAR-13226-1] c 27 N84-20700
- Process for improving moisture resistance of epoxy resins by addition of cobalt ions --- potential applications to composite matrix resins, adhesives, and casting resins for aerospace utilization
[NASA-CASE-LAR-13230-1] c 27 N84-20701
- EQUATIONS OF MOTION**
Kinesimetric method and apparatus
[NASA-CASE-MS-C-18929-1] c 39 N83-20280
- EQUIPMENT**
Bimetallic fluid displacement apparatus --- for stirring and heating stored gases and liquids
[NASA-CASE-ARC-10441-1] c 35 N74-15126
- Apparatus for supplying conditioned air at a substantially constant temperature and humidity
[NASA-CASE-GSC-12191-1] c 31 N80-32583
- EQUIPMENT SPECIFICATIONS**
Differential pressure cell Patent
[NASA-CASE-XAC-00042] c 14 N70-34816
- High-temperature, high-pressure spherical segment valve Patent
[NASA-CASE-XAC-00074] c 15 N70-34817
- Optical torque meter Patent
[NASA-CASE-XLE-00503] c 14 N70-34818
- Magnetically centered liquid column float Patent
[NASA-CASE-XAC-00030] c 14 N70-34820
- Electric propulsion engine test chamber Patent
[NASA-CASE-XLE-00252] c 11 N70-34844
- Channel-type shell construction for rocket engines and the like Patent
[NASA-CASE-XLE-00144] c 28 N70-34860
- Non-reusable kinetic energy absorber Patent
[NASA-CASE-XLE-00810] c 15 N70-34861
- Slit regulated gas journal bearing Patent
[NASA-CASE-XNP-00476] c 15 N70-38620
- Optical communications system Patent
[NASA-CASE-XLA-01090] c 07 N71-12389
- Stretcher Patent
[NASA-CASE-XMF-06589] c 05 N71-23159
- Rocket thrust throttling system
[NASA-CASE-LEW-10374-1] c 28 N73-13773
- Process for making diamonds
[NASA-CASE-MFS-20698-2] c 15 N73-19457
- Anti-buckling fatigue test assembly --- for subjecting metal specimen to tensile and compressive loads at constant temperature
[NASA-CASE-LAR-10426-1] c 09 N74-19528
- Apparatus for conducting flow electrophoresis in the substantial absence of gravity
[NASA-CASE-MFS-21394-1] c 34 N74-27744
- Thermocouple tape --- developed from thermoelectrically different metals
[NASA-CASE-LEW-11072-2] c 35 N76-15434
- Field effect transistor and method of construction thereof
[NASA-CASE-MFS-23312-1] c 33 N78-27326
- Constant magnification optical tracking system
[NASA-CASE-NPO-14813-1] c 74 N82-24072
- EQUIPOTENTIALS**
Equipotential space suit Patent
[NASA-CASE-LAR-10007-1] c 05 N71-11195
- Instrument for measuring potentials on two dimensional electric field plots Patent
[NASA-CASE-XLA-08493] c 10 N71-19421

ERGOMETERS

- Restraint system for ergometer
[NASA-CASE-MFS-21046-1] c 14 N73-27377
- Ergometer
[NASA-CASE-MFS-21109-1] c 05 N73-27941
- Tilting table for ergometer and for other biomedical devices
[NASA-CASE-MFS-21010-1] c 05 N73-30078
- Foot pedal operated fluid type exercising device
[NASA-CASE-MS-C-11561-1] c 05 N73-32014
- Ergometer calibrator --- for any ergometer utilizing rotating shaft
[NASA-CASE-MFS-21045-1] c 35 N75-15932
- EROSION**
Thermal shock and erosion resistant tantalum carbide ceramic material
[NASA-CASE-LAR-11902-1] c 27 N78-17206
- ERROR ANALYSIS**
Program for computer aided reliability estimation
[NASA-CASE-NPO-13086-1] c 15 N73-12495
- Bit error rate measurement above and below bit rate tracking threshold
[NASA-CASE-MS-C-12743-1] c 32 N79-10263
- ERROR CORRECTING CODES**
Error correction method and apparatus for electronic timepieces
[NASA-CASE-LAR-12654-1] c 33 N83-36357
- Self-correcting electronically scanned pressure sensor
[NASA-CASE-LAR-12686-1] c 35 N84-14491
- ERROR CORRECTING DEVICES**
Automatic fault correction system for parallel signal channels Patent
[NASA-CASE-XNP-03263] c 09 N71-18843
- Elimination of frequency shift in a multiplex communication system Patent
[NASA-CASE-XNP-01306] c 07 N71-20814
- Error correcting method and apparatus Patent
[NASA-CASE-XNP-02748] c 08 N71-22749
- Failure detection and control means for improved drift performance of a gimbal platform system
[NASA-CASE-MFS-23551-1] c 04 N76-26175
- Guide for a typewriter
[NASA-CASE-MFS-15218-1] c 37 N77-19457
- ERROR DETECTION CODES**
Self-testing and repairing computer Patent
[NASA-CASE-NPO-10567] c 08 N71-24633
- ERROR SIGNALS**
Automatic fault correction system for parallel signal channels Patent
[NASA-CASE-XNP-03263] c 09 N71-18843
- Sampled data controller Patent
[NASA-CASE-GSC-10554-1] c 08 N71-29033
- Bit error rate measurement above and below bit rate tracking threshold
[NASA-CASE-MS-C-12743-1] c 32 N79-10263
- Apparatus and method for tracking the fundamental frequency of an analog input signal
[NASA-CASE-ARC-11367-1] c 33 N83-21238
- Triac failure detector
[NASA-CASE-MFS-25607-1] c 33 N83-34190
- ERRORS**
Analog-to-digital converter
[NASA-CASE-MS-C-13110-1] c 08 N72-22163
- ESCAPE CAPSULES**
Aerial capsule emergency separation device Patent
[NASA-CASE-XLA-00115] c 03 N70-33343
- Emergency escape system Patent
[NASA-CASE-XKS-02342] c 05 N71-11199
- Emergency earth orbital escape device
[NASA-CASE-MS-C-13281] c 31 N72-18859
- ESCAPE SYSTEMS**
Emergency escape system Patent
[NASA-CASE-MS-C-12086-1] c 05 N71-12345
- Emergency escape system Patent
[NASA-CASE-XKS-07814] c 15 N71-27067
- Explosively activated egress area
[NASA-CASE-LAR-12624-1] c 01 N83-35992
- ESCHERICHIA**
Method for detecting coliform organisms
[NASA-CASE-ARC-11322-1] c 51 N83-28849
- ESTERS**
Fluorinated esters of polycarboxylic acids
[NASA-CASE-MFS-21040-1] c 06 N73-30098
- ETCHING**
Masking device Patent
[NASA-CASE-XNP-02092] c 15 N70-42033
- Method for etching copper Patent
[NASA-CASE-XGS-06306] c 17 N71-16044
- High resolution developing of photosensitive resists Patent
[NASA-CASE-XGS-04993] c 14 N71-17574
- Etching of aluminum for bonding Patent
[NASA-CASE-XMF-02303] c 17 N71-23828
- Selective plating of etched circuits without removing previous plating Patent
[NASA-CASE-XGS-03120] c 15 N71-24047

- Plating nickel on aluminum castings Patent
[NASA-CASE-XNP-04148] c 17 N71-24830
- Scanning nozzle plating system --- for etching or plating metals on substrates without masking
[NASA-CASE-NPO-11758-1] c 31 N74-23065
- Method for applying photographic resists to otherwise incompatible substrates
[NASA-CASE-MS-C-18107-1] c 27 N81-25209
- Method of making V-MOS field effect transistors utilizing a two-step anisotropic etching and ion implantation
[NASA-CASE-GSC-12515-1] c 33 N81-26360
- Liquid immersion apparatus for minute articles
[NASA-CASE-MFS-25363-1] c 37 N82-12441
- Controlled in situ etch-back
[NASA-CASE-NPO-15625-1] c 76 N83-20789
- ETHANE**
The 1,1,1-triaryl-2,2,2-trifluoroethanes and process for their synthesis
[NASA-CASE-ARC-11097-1] c 25 N82-24312
- ETHERS**
Method of producing alternating ether siloxane copolymers Patent
[NASA-CASE-XMF-02584] c 06 N71-20905
- Hydroxy terminated perfluoro ethers Patent
[NASA-CASE-NPO-10768] c 06 N71-27254
- Polyurethane resins from hydroxy terminated perfluoro ethers
[NASA-CASE-NPO-10768-2] c 06 N72-27144
- Process of treating cellululosic membrane and alkaline with membrane separator
[NASA-CASE-GSC-10019-1] c 44 N82-24641
- Separator for alkaline electric cells and method of making
[NASA-CASE-GSC-10017-1] c 44 N82-24643
- Toughening reinforced epoxy composites with brominated polymeric additives
[NASA-CASE-ARC-11427-1] c 24 N83-25791
- ETHYL COMPOUNDS**
Precision heat forming of tetrafluoroethylene tubing
[NASA-CASE-MS-C-18430-1] c 37 N82-24491
- ETHYLENE OXIDE**
Process for preparing sterile solid propellants Patent
[NASA-CASE-NXP-01749] c 27 N70-41897
- Processing for producing a sterilized instrument Patent
[NASA-CASE-XNP-09763] c 14 N71-20461
- System for sterilizing objects --- cleaning space vehicle systems
[NASA-CASE-KSC-11085-1] c 54 N81-24724
- EUTECTIC ALLOYS**
Bonding of sapphire to sapphire by eutectic mixture of aluminum oxide and zirconium oxide
[NASA-CASE-GSC-11577-1] c 37 N75-15992
- Method of growing composites of the type exhibiting the Soret effect --- improved structure of eutectic alloy crystals
[NASA-CASE-MFS-22926-1] c 24 N77-27187
- Directionally solidified eutectic gamma plus beta nickel-base superalloys
[NASA-CASE-LEW-12906-1] c 26 N77-32279
- Directionally solidified eutectic gamma-gamma nickel-base superalloys
[NASA-CASE-LEW-12905-1] c 26 N78-18183
- Bonding of sapphire to sapphire by eutectic mixture of aluminum oxide and zirconium oxide
[NASA-CASE-GSC-11577-3] c 24 N79-25143
- EVAUATING (VACUUM)**
Method for making a heat insulating and ablative structure
[NASA-CASE-XMS-01108] c 15 N69-24322
- Evacuation port seal Patent
[NASA-CASE-XMF-03290] c 15 N71-23256
- Leak detector wherein a probe is monitored with ultraviolet radiation Patent
[NASA-CASE-ERC-10034] c 15 N71-24896
- Evacuated, displacement compression mold --- of tubular bodies from thermosetting plastics
[NASA-CASE-LAR-10782-2] c 31 N75-13111
- EVAPORATION**
Evaporant holder
[NASA-CASE-XLA-03105] c 15 N69-27483
- EVAPORATIVE COOLING**
Tubular sublimatory evaporator heat sink
[NASA-CASE-ARC-10912-1] c 34 N77-19353
- EVAPORATORS**
Evaporant source for vapor deposition Patent
[NASA-CASE-XMF-06065] c 15 N71-20395
- Deposition apparatus
[NASA-CASE-LAR-10541-1] c 15 N72-32487
- Tower evaporator
[NASA-CASE-NPO-15609-1] c 25 N83-36119
- Thermal control system --- removing waste heat from industrial process spacecraft
[NASA-CASE-GSC-12771-1] c 34 N84-14461

EXAMINATION

Apparatus for use in examining the lattice of a semiconductor wafer by X-ray diffraction
[NASA-CASE-MFS-23315-1] c 76 N78-24950

EXCLUSION

Counter pumping debris excluder and separator --- gas turbine shaft seals
[NASA-CASE-LEW-11855-1] c 07 N78-25090

EXHAUST EMISSION

Apparatus and method for destructive removal of particles contained in flowing fluid
[NASA-CASE-NPO-15426-1] c 35 N84-17555

EXHAUST GASES

Device for suppressing sound and heat produced by high-velocity exhaust jets Patent
[NASA-CASE-XMF-01813] c 28 N70-41582
Gas turbine exhaust nozzle --- for noise reduction
[NASA-CASE-LEW-11569-1] c 07 N74-15453
Abating exhaust noises in jet engines
[NASA-CASE-ARC-10712-1] c 07 N74-33218
Exhaust flow deflector --- for ducted gas flow
[NASA-CASE-LAR-11570-1] c 34 N76-18364
Gas turbine engine with recirculating bleed
[NASA-CASE-LEW-12452-1] c 07 N78-25089
High performance ammonium nitrate propellant
[NASA-CASE-NPO-14260-1] c 28 N79-28342
Supercritical fuel injection system
[NASA-CASE-LEW-12990-1] c 07 N81-29129

EXHAUST NOZZLES

Annular rocket motor and nozzle configuration Patent
[NASA-CASE-XLE-00078] c 28 N70-33284
Nozzle Patent
[NASA-CASE-XLA-00154] c 28 N70-33374
Penshape exhaust nozzle for supersonic engine Patent
[NASA-CASE-XLE-00057] c 28 N70-38711
Ejection unit Patent
[NASA-CASE-XNP-00676] c 15 N70-38996
Two dimensional wedge/translating shroud nozzle
[NASA-CASE-LAR-11919-1] c 07 N78-27121
Variable area exhaust nozzle
[NASA-CASE-LEW-12378-1] c 07 N79-14097
Noise suppressor for turbo fan jet engines
[NASA-CASE-ARC-10812-1] c 07 N83-33884
Apparatus and method for jet noise suppression
[NASA-CASE-LAR-11903-2] c 71 N84-14873

EXOTHERMIC REACTIONS

Ambient cure polyimide foams --- thermal resistant foams
[NASA-CASE-ARC-11170-1] c 27 N79-11215
Exothermic furnace module
[NASA-CASE-MFS-25707-1] c 35 N82-26631
Thermal control system --- removing waste heat from industrial process spacecraft
[NASA-CASE-GSC-12771-1] c 34 N84-14461

EXPANDABLE STRUCTURES

Connector strips-positive, negative and T tabs
[NASA-CASE-XGS-01395] c 03 N69-21539
Reflector space satellite Patent
[NASA-CASE-XLA-00138] c 31 N70-37981
Foldable conduit Patent
[NASA-CASE-XLE-00620] c 32 N70-41579
Collapsible high gain antenna
[NASA-CASE-KSC-10392] c 07 N73-26117
Expandable space frames
[NASA-CASE-ERC-10365-1] c 31 N73-32749
Means for accommodating large overstrain in lead wires --- by storing extra length of wire in stretchable loop
[NASA-CASE-LAR-10168-1] c 33 N74-22865
Antenna deployment mechanism for use with a spacecraft --- extensible and retractable telescopic antenna mast
[NASA-CASE-GSC-12331-1] c 18 N80-14183
High production shuttle car system for coal mines
[NASA-CASE-NPO-15949-1] c 37 N83-20155
Synchronously deployable truss structure
[NASA-CASE-LAR-13117-1] c 18 N84-16250

EXPANSION

Apparatus for measuring swelling characteristics of membranes
[NASA-CASE-XGS-03865] c 14 N69-21363
Method for alleviating thermal stress damage in laminates
[NASA-CASE-LEW-12493-2] c 24 N81-26179

EXPERIMENT DESIGN

Hydrofoil Patent
[NASA-CASE-XLA-00229] c 12 N70-33305
Sealed battery gas manifold construction Patent
[NASA-CASE-XNP-03378] c 03 N71-11051
Electrode construction Patent
[NASA-CASE-ARC-10043-1] c 05 N71-11193
G conditioning suit Patent
[NASA-CASE-XLA-02898] c 05 N71-20268
Hard space suit Patent
[NASA-CASE-XAC-07043] c 05 N71-23161

EXPIRED AIR

Metabolic rate meter and method
[NASA-CASE-MSC-12239-1] c 52 N79-21750

EXPLOSIONS

Combustion detector
[NASA-CASE-LAR-10739-1] c 14 N73-16484

EXPLOSIVE DEVICES

Tubular coupling having frangible connecting means
[NASA-CASE-XLA-02854] c 15 N69-27490
Hermetically sealed explosive release mechanism Patent
[NASA-CASE-XGS-00824] c 15 N71-16078
Nonmagnetic, explosive actuated indexing device Patent
[NASA-CASE-XGS-02422] c 15 N71-21529
Linear explosive comparison
[NASA-CASE-LAR-10800-1] c 33 N72-27959
Disconnect unit
[NASA-CASE-NPO-11330] c 33 N73-26958
Pressure limiting propellant actuating system
[NASA-CASE-MSC-18179-1] c 20 N80-18097
Slide release mechanism --- for the external tank
[NASA-CASE-MSC-20080-1] c 37 N82-31688

EXPLOSIVE FORMING

Electrical discharge apparatus for forming Patent
[NASA-CASE-XMF-00375] c 15 N70-34249

EXPLOSIVE WELDING

Totally confined explosive welding --- apparatus to reduce noise level and protect personnel during explosive bonding
[NASA-CASE-LAR-10941-1] c 37 N74-21057
Method of making an explosively welded scarf joint
[NASA-CASE-LAR-11211-1] c 37 N75-12326
Totally confined explosive welding
[NASA-CASE-LAR-10941-2] c 37 N79-13364

EXPLOSIVES

Synthesis of superconducting compounds by explosive compaction of powders
[NASA-CASE-MFS-20861-1] c 18 N73-32437
Optically detonated explosive device
[NASA-CASE-NPO-11743-1] c 28 N74-27425
Electroexplosive device
[NASA-CASE-NPO-13858-1] c 28 N79-11231

EXPONENTIAL FUNCTIONS

Digital quasi-exponential function generator
[NASA-CASE-NPO-11130] c 08 N72-20176

EXPOSURE

Exposure interlock for oscilloscope cameras
[NASA-CASE-LAR-10319-1] c 14 N73-32322
Selective image area control of X-ray film exposure density
[NASA-CASE-NPO-13808-1] c 35 N78-15461
Fixture for environmental exposure of structural materials under compression load
[NASA-CASE-LAR-12602-1] c 39 N83-32081

EXPULSION BLADDERS

Expulsion bladder-equipped storage tank structure Patent
[NASA-CASE-XNP-00612] c 11 N70-38182

EXTENSIONS

Extensible cable support Patent
[NASA-CASE-XMF-07587] c 15 N71-18701

EXTENSOMETERS

Extensometer frame
[NASA-CASE-XLA-10322] c 15 N72-17452
Conductive elastomeric extensometer
[NASA-CASE-MFS-21049-1] c 52 N74-27884
Amplifying ribbon extensometer
[NASA-CASE-LAR-11825-1] c 35 N77-22449
Laser extensometer
[NASA-CASE-MFS-19259-1] c 36 N78-14380
Tensile testing apparatus
[NASA-CASE-LAR-13243-1] c 35 N84-20804

EXTERNAL COMBUSTION ENGINES

Hot gas engine with dual crankshafts
[NASA-CASE-NPO-14221-1] c 37 N81-25370

EXTERNAL STORES

Decoupler pylon: wing/store flutter suppressor
[NASA-CASE-LAR-12468-1] c 08 N82-32373

EXTERNAL TANKS

Slide release mechanism --- for the external tank
[NASA-CASE-MSC-20080-1] c 37 N82-31688
Space Shuttle with improved external propellant tank
[NASA-CASE-MFS-25853] c 16 N83-13149

EXTRACTION

Liquid-gas separation system Patent
[NASA-CASE-XMS-01624] c 15 N70-40062
Chassis unit insert tightening-extract device
[NASA-CASE-XMS-01077-1] c 37 N79-33467

EXTRAVEHICULAR ACTIVITY

Portable environmental control system Patent
[NASA-CASE-XMS-09632-1] c 05 N71-11203
Hand-held self-maneuvering unit Patent
[NASA-CASE-XMS-05304] c 05 N71-12336
Serpentuator Patent
[NASA-CASE-XMF-05344] c 31 N71-16345

Fastener apparatus Patent
[NASA-CASE-ARC-10140-1] c 15 N71-17653
Extravehicular tunnel suit system Patent
[NASA-CASE-MSC-12243-1] c 05 N71-24728
Life support system
[NASA-CASE-MSC-12411-1] c 05 N72-20096
Space suit
[NASA-CASE-MSC-12609-1] c 05 N73-32012
Spray applicator for spraying coatings and other fluids in space
[NASA-CASE-MSC-18852-1] c 37 N82-28640
Absorbent product and articles made therefrom
[NASA-CASE-MSC-18223-2] c 54 N84-11758

EXTREMELY LOW RADIO FREQUENCIES

VHF/UHF parasitic probe antenna Patent
[NASA-CASE-XKS-09340] c 07 N71-24614

EXTRUDING

Extrusion can
[NASA-CASE-NPO-10812] c 15 N73-13464
Brazing alloy binder
[NASA-CASE-XMF-05868] c 26 N75-27125
Continuous coal processing method
[NASA-CASE-NPO-13758-2] c 31 N81-15154

EYE (ANATOMY)

Sight switch using an infrared source and sensor Patent
[NASA-CASE-XMF-03934] c 09 N71-22985
Ophthalmic method and apparatus
[NASA-CASE-LEW-11669-1] c 05 N73-27062
Corneal seal device
[NASA-CASE-LEW-12258-1] c 52 N77-28716
Intra-ocular pressure normalization technique and equipment
[NASA-CASE-LEW-12723-1] c 52 N80-18690
Chromatically corrected virtual image visual display --- reducing eye strain in flight simulators
[NASA-CASE-LAR-12251-1] c 74 N80-27185

EYE EXAMINATIONS

Visual examination apparatus
[NASA-CASE-ARC-10329-1] c 05 N73-26072
Multiparameter vision testing apparatus
[NASA-CASE-MSC-13601-2] c 54 N75-27759
Visual examination apparatus
[US-PATENT-RE-28,921] c 52 N76-30793

EYEPieces

Wide angle long eye relief eyepiece Patent
[NASA-CASE-XMS-06056-1] c 23 N71-24857

F

FABRICATION

Pressure variable capacitor
[NASA-CASE-XNP-09752] c 14 N69-21541
Method of making a regeneratively cooled combustion chamber Patent
[NASA-CASE-XLE-00150] c 28 N70-41818
Solar cell submodule Patent
[NASA-CASE-XNP-05821] c 03 N71-11056
Capacitor and method of making same Patent
[NASA-CASE-LEW-10364-1] c 09 N71-13522
Solar panel fabrication Patent
[NASA-CASE-XNP-03413] c 03 N71-26726
Method of forming a root cord restrained convolute section
[NASA-CASE-MSC-12398] c 05 N72-20098
Method of removing insulated material from insulated wires
[NASA-CASE-FRC-10038] c 15 N72-20444
Thin film temperature sensor and method of making same
[NASA-CASE-NPO-11775] c 26 N72-28761
Fabrication of polycrystalline solar cells on low-cost substrates
[NASA-CASE-GSC-12022-1] c 44 N76-28635
Lightweight reflector assembly
[NASA-CASE-NPO-13707-1] c 74 N77-28933
Process for spinning flame retardant elastomeric compositions --- fabricating synthetic fibers for high oxygen environments
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[NASA-CASE-NPO-13731-1] c 39 N78-10493
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- Heating and cooling system --- for fatigue test specimens
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[NASA-CASE-LAR-10365-1] c 05 N72-27102
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[NASA-CASE-NPO-13091-1] c 09 N73-12214
Injector for use in high voltage isolators for liquid feed lines
[NASA-CASE-NPO-11377] c 15 N73-27406
Supercharged topping rocket propellant feed system
[NASA-CASE-XLE-02062-1] c 20 N80-14188
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Monostable multivibrator with complementary NOR gates Patent
[NASA-CASE-MSC-13492-1] c 10 N71-28860
- FEEDBACK CIRCUITS**
Low power drain semi-conductor circuit
[NASA-CASE-XGS-04999] c 09 N69-24317
Linear three-tap feedback shift register Patent
[NASA-CASE-NPO-10351] c 08 N71-12503
Frequency control network for a current feedback oscillator Patent
[NASA-CASE-GSC-10041-1] c 10 N71-19418
Feedback integrator with grounded capacitor Patent
[NASA-CASE-XAC-10607] c 10 N71-23669
Parametric amplifiers with idler circuit feedback
[NASA-CASE-LAR-10253-1] c 09 N72-25258
Pseudonoise sequence generators with three tap linear feedback shift registers
[NASA-CASE-NPO-11406] c 08 N73-12175
Logarithmic circuit with wide dynamic range
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Television camera video level control system --- space shuttle orbiters
[NASA-CASE-MSC-18578-1] c 74 N82-27121
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[NASA-CASE-KSC-11170-1] c 33 N83-36356
- FEEDBACK CONTROL**
Nonlinear analog-to-digital converter Patent
[NASA-CASE-XAC-04031] c 08 N71-18594
Pulse-type magnetic core memory element circuit with blocking oscillator feedback Patent
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[NASA-CASE-XKS-06167] c 08 N71-24890
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[NASA-CASE-NPO-10700] c 07 N71-33613
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[NASA-CASE-LAR-10682-1] c 02 N73-26004
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Wide power range microwave feedback controller
[NASA-CASE-GSC-12146-1] c 33 N78-32340

Active notch filter network with variable notch depth, width and frequency
[NASA-CASE-FRC-11055-1] c 33 N80-29583

Method and apparatus for transfer function simulator for testing complex systems
[NASA-CASE-NPO-15896-1] c 36 N82-28619

Three phase power factor controller with induced EMF sensing
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Variable speed drive
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[NASA-CASE-XLA-01127] c 07 N70-41372

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Linear phase demodulator including a phase locked loop with auxiliary feedback loop
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Urine collection apparatus --- feminine hygiene
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[NASA-CASE-GSC-10097-1] c 08 N71-27210

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Device for measuring the ferrite content in an austenitic stainless-steel weld
[NASA-CASE-MFS-22907-1] c 26 N76-18257

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FERROMAGNETISM
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[NASA-CASE-XLE-03629] c 17 N71-23248

FIBER COMPOSITES
Fibrous refractory composite insulation --- shielding reusable spacecraft
[NASA-CASE-ARC-11169-1] c 24 N79-24062

Universal connectors for joining stringers
[NASA-CASE-LAR-12744-1] c 37 N81-31551

Method and apparatus for gripping uniaxial fibrous composite materials --- holding specimens for mechanical property testing
[NASA-CASE-LEW-13758-1] c 24 N83-12176

FIBER OPTICS
Fiber optic vibration transducer and analyzer Patent
[NASA-CASE-XMF-02433] c 14 N71-10616

Fiber distributed feedback laser
[NASA-CASE-NPO-13531-1] c 36 N76-24553

Fiber optic multiplex optical transmission system
[NASA-CASE-KSC-11047-1] c 74 N78-14889

Low intensity X-ray and gamma-ray imaging device --- fiber optics
[NASA-CASE-GSC-12263-1] c 74 N79-20857

Precise RF timing signal distribution to remote stations --- fiber optics
[NASA-CASE-NPO-14749-1] c 32 N81-14186

Apparatus for fiber optic liquid level sensing
[NASA-CASE-MS-18674-1] c 74 N81-24907

Interleaving device
[NASA-CASE-GSC-12111-2] c 33 N81-29342

Optical gyroscope system
[NASA-CASE-NPO-14258-1] c 35 N81-33448

Fiber optic transmission line stabilization apparatus and method
[NASA-CASE-NPO-15036-1] c 74 N82-19029

Optical crystal temperature gauge with fiber optic connections
[NASA-CASE-MS-18627-1] c 74 N82-30071

Low intensity X-ray and gamma-ray spectrometer
[NASA-CASE-GSC-12587-1] c 35 N82-32659

Ranging system --- industrial robotics
[NASA-CASE-NPO-15865-1] c 74 N83-12991

Method for making a bonded single mode fiber optic wavelength coupler
[NASA-CASE-NPO-15464-1] c 74 N83-25540

Fiber optic crossbar switch for automatically patching optical signals
[NASA-CASE-KSC-11104-1] c 74 N83-29032

Containerless high purity pulling process and apparatus for glass fibers
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Optical fiber tactile sensor
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FIBER REINFORCED COMPOSITES
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[NASA-CASE-LEW-12933-1] c 27 N81-19296

Fuselage structure using advanced technology fiber reinforced composites
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Low temperature cross linking polyimides
[NASA-CASE-LEW-12876-2] c 27 N83-29392

Curved cap corrugated sheet
[NASA-CASE-LAR-12884-1] c 31 N83-29446

Mixed polyvalent-monovalent metal coating for carbon-graphite fibers
[NASA-CASE-NPO-14987-1] c 24 N83-33950

FIBER RELEASE
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[NASA-CASE-LEW-13226-1] c 27 N81-17260

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Composite lamination method
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Dual membrane hollow fiber fuel cell and method of operating same
[NASA-CASE-NPO-13732-1] c 44 N79-10513

Ion-exchange hollow fibers
[NASA-CASE-NPO-13309-1] c 25 N81-19244

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[NASA-CASE-MS-18934-3] c 24 N82-26387

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[NASA-CASE-XNP-07040] c 08 N71-12500

Voltage to frequency converter Patent
[NASA-CASE-GSC-10022-1] c 10 N71-25882

Broadband video process with very high input impedance
[NASA-CASE-NPO-10199] c 09 N72-17156

Data multiplexer using tree switching configuration
[NASA-CASE-NPO-11333] c 08 N72-22162

Integrated circuit including field effect transistor and cermet resistor
[NASA-CASE-GSC-10835-1] c 09 N72-33205

Radiation hardening of MOS devices by boron --- for stabilizing gate threshold potential of field effect device
[NASA-CASE-GSC-11425-1] c 76 N74-20329

Stored charge transistor
[NASA-CASE-NPO-11156-2] c 33 N75-31331

Field effect transistor and method of construction thereof
[NASA-CASE-MFS-23312-1] c 33 N78-27326

JFET oscillator
[NASA-CASE-GSC-12555-1] c 33 N80-26601

Method of making V-MOS field effect transistors utilizing a two-step anisotropic etching and ion implantation
[NASA-CASE-GSC-12515-1] c 33 N81-26360

CCD correlated quadruple sampling processor
[NASA-CASE-NPO-14426-1] c 33 N81-27396

Microwave field effect transistor
[NASA-CASE-GSC-12442-1] c 33 N82-20398

Electronic system for high power load control --- solar arrays
[NASA-CASE-NPO-15358-1] c 33 N83-27126

Hybrid power semiconductor switch
[NASA-CASE-LEW-13922-1] c 33 N84-11389

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Method of making a filament-wound container Patent
[NASA-CASE-XLE-03803-2] c 15 N71-17651

Method of fabricating a twisted composite superconductor
[NASA-CASE-LEW-11015] c 26 N73-32571

Method of making reinforced composite structure
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Radiant heater having formed filaments Patent
[NASA-CASE-XLE-00387] c 33 N70-34812

Twisted multifilament superconductor
[NASA-CASE-LEW-11726-1] c 26 N73-26752

FILLERS
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[NASA-CASE-XMS-01108] c 15 N69-24322

Intumescent-ablator coatings using endothermic fillers
[NASA-CASE-ARC-11043-1] c 24 N78-27180

Polymeric compositions and their method of manufacture --- forming filled polymer systems using cryogenics
[NASA-CASE-NPO-10424-1] c 27 N81-24258

Polyvinyl alcohol battery separator containing inert filler --- alkaline batteries
[NASA-CASE-LEW-13556-1] c 44 N81-27615

Adjustable high emittance gap filler --- reentry shielding for space shuttle vehicles
[NASA-CASE-ARC-11310-1] c 27 N82-24339

High performance filleting sealant
[NASA-CASE-ARC-11409-1] c 27 N82-32490

Polyvinyl alcohol battery separator containing inert filler
[NASA-CASE-LEW-13556-2] c 44 N83-29805

FILLING
Self-charging metering and dispensing device for fluids
[NASA-CASE-MS-20275-1] c 35 N83-17856

FILM COOLING
Multislit film cooled pyrolytic graphite rocket nozzle Patent
[NASA-CASE-XNP-04389] c 28 N71-20942

Curved film cooling admission tube
[NASA-CASE-LEW-13174-1] c 34 N83-27144

Covering solid, film cooled surfaces with a duplex thermal barrier coating
[NASA-CASE-LEW-13450-1] c 31 N83-35177

Vortex generating flow passage design for increased film cooling effectiveness
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Chemical vapor deposition reactor --- providing uniform film thickness
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Dual-beam skin friction interferometer
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Degassifying and mixing apparatus for liquids --- potable water for spacecraft
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Method and apparatus for measurement of trap density and energy distribution in dielectric films
[NASA-CASE-NPO-13443-1] c 76 N76-20994

FILTERS
Filter system for control of outgas contamination in vacuum Patent
[NASA-CASE-MFS-14711] c 15 N71-26185

Method for removing oxygen impurities from cesium Patent
[NASA-CASE-XNP-04262-2] c 17 N71-26773

Centrifugal lyophobic separator
[NASA-CASE-LAR-10194-1] c 34 N74-30608

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[NASA-CASE-NPO-14110-1] c 28 N81-15119

- Process for producing tris (N-methylamino) methylsilane
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- A solvent resistant, thermoplastic aromatic poly(imidesulfone) and process for preparing same
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- Method for treating wastewater using microorganisms and vascular aquatic plants
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- FINES**
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[NASA-CASE-NPO-15466-1] c 71 N82-27087
- FINGERS**
Self-locking telescoping manipulator arm
[NASA-CASE-MFS-25906-1] c 54 N84-11761
- FINIS**
Thrust and direction control apparatus Patent
[NASA-CASE-XLE-03583] c 31 N71-17629
- Deployable flexible ventral fins for use as an emergency spin recovery device in aircraft
[NASA-CASE-LAR-10753-1] c 08 N74-30421
- FIRE EXTINGUISHERS**
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- Synthesis of dawsonites --- for use in fire extinguishing operations
[NASA-CASE-ARC-11326-1] c 25 N83-33977
- Fire extinguishant materials
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- FIRE PREVENTION**
Hydrogen fire blink detector
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 Rocket thrust throttling system
 [NASA-CASE-LEW-10374-1] c 28 N73-13773
 Fluid pressure amplifier and system
 [NASA-CASE-LAR-10868-1] c 33 N74-11050
 Fluid thrust control system --- for liquid propellant rocket engines
 [NASA-CASE-XMF-05964-1] c 20 N79-21124

FLUID DYNAMICS

Degassifying and mixing apparatus for liquids --- potable water for spacecraft
 [NASA-CASE-MSC-18936-1] c 35 N83-29652

FLUID FILLED SHELLS

Method and apparatus for producing gas-filled hollow spheres --- target pellets for inertial confinement fusion
 [NASA-CASE-NPO-14596-3] c 31 N83-31896

FLUID FILMS

Journal bearings --- for lubricant films
 [NASA-CASE-LEW-11076-1] c 37 N74-21061
 Fluid journal bearings
 [NASA-CASE-LEW-11076-4] c 37 N76-15461
 Fluid seal for rotating shafts
 [NASA-CASE-LEW-11676-1] c 37 N76-22541

FLUID FILTERS

Liquid-gas separator for zero gravity environment Patent
 [NASA-CASE-XMS-01492] c 05 N70-41297
 High pressure filter Patent
 [NASA-CASE-XNP-00732] c 28 N70-41447
 Water separating system Patent
 [NASA-CASE-XMS-13052] c 14 N71-20427
 Fluid control apparatus and method
 [NASA-CASE-LAR-11110-1] c 34 N75-26282

Filter regeneration systems --- a system for regenerating a system filter in a fluid flow line
 [NASA-CASE-MSC-14273-1] c 34 N75-33342
 Quick disconnect filter coupling
 [NASA-CASE-MFS-22323-1] c 37 N76-14463
 Fluid sample collection and distribution system --- qualitative analysis of aqueous samples from several points
 [NASA-CASE-MSC-16841-1] c 34 N79-24285
 Air removal device --- life support systems
 [NASA-CASE-XLA-8914-2] c 25 N82-21269
 Rapid, quantitative determination of bacteria in water --- adenosine triphosphate
 [NASA-CASE-GSC-12158-1] c 51 N83-27569

FLUID FLOW

Fluid jet amplifier
 [NASA-CASE-XLE-03512] c 12 N69-21466
 Pneumatic system for controlling and actuating pneumatic cyclic devices
 [NASA-CASE-XMS-04843] c 03 N69-21469
 Full flow with shut off and selective drainage control valve Patent application
 [NASA-CASE-ERC-10208] c 15 N70-10867
 Conical valve plug Patent
 [NASA-CASE-XLE-00715] c 15 N70-34859
 Pressure regulating system Patent
 [NASA-CASE-XNP-00450] c 15 N70-38603
 Antiflutter ball check valve Patent
 [NASA-CASE-XNP-01152] c 15 N70-41811
 Inductive liquid level detection system Patent
 [NASA-CASE-XLE-01809] c 14 N71-10500
 Multiway vortex valve system Patent
 [NASA-CASE-XMF-04709] c 15 N71-15609
 Heated element fluid flow sensor Patent
 [NASA-CASE-MSC-12084-1] c 12 N71-17569
 Multiple orifice throttle valve Patent
 [NASA-CASE-XNP-09698] c 15 N71-18580
 Fluid flow meter with comparator reference means Patent
 [NASA-CASE-XGS-01331] c 14 N71-22996
 Pressure transducer calibrator Patent
 [NASA-CASE-XNP-01660] c 14 N71-23036
 Dual latching solenoid valve Patent
 [NASA-CASE-XMS-05890] c 09 N71-23191
 Gas low pressure low flow rate metering system Patent
 [NASA-CASE-FRC-10022] c 12 N71-26546
 Electrohydrodynamic control valve Patent
 [NASA-CASE-NPO-10416] c 12 N71-27332
 Fluid jet amplifier Patent
 [NASA-CASE-XLE-09341] c 12 N71-28741
 Nuclear mass flowmeter
 [NASA-CASE-MFS-20485] c 14 N72-11365
 Flow rate switch
 [NASA-CASE-NPO-10722] c 09 N72-20199
 Torsional disconnect unit
 [NASA-CASE-NPO-10704] c 15 N72-20445
 Capacitive tank gaging apparatus being independent of liquid distribution
 [NASA-CASE-MFS-21629] c 14 N72-22442
 Cryogenic feedthrough
 [NASA-CASE-LAR-10031] c 15 N72-22484
 Geysering inhibitor for vertical cryogenic transfer pipe
 [NASA-CASE-KSC-10615] c 15 N73-12486
 Pump for delivering heated fluids
 [NASA-CASE-NPO-11417] c 15 N73-24513
 Flow control valve --- for high temperature fluids
 [NASA-CASE-NPO-11951-1] c 37 N74-21065
 Apparatus for establishing flow of a fluid mass having a known velocity
 [NASA-CASE-MFS-21424-1] c 34 N74-27730
 Internally supported flexible duct joint --- device for conducting fluids in high pressure systems
 [NASA-CASE-MFS-19193-1] c 37 N75-19686
 Flow measuring apparatus
 [NASA-CASE-LEW-12078-1] c 35 N75-30503
 Filter regeneration systems --- a system for regenerating a system filter in a fluid flow line
 [NASA-CASE-MSC-14273-1] c 34 N75-33342
 Combined dual scatter, local oscillator laser Doppler velocimeter
 [NASA-CASE-ARC-10642-1] c 36 N76-14447
 Externally supported internally stabilized flexible duct joint
 [NASA-CASE-MFS-19194-1] c 37 N76-14460
 Vortex generator for controlling the dispersion of effluents in a flowing liquid
 [NASA-CASE-LAR-12045-1] c 34 N77-24423
 Pseudo-backscatter laser Doppler velocimeter employing antiparallel-reflector in the forward direction
 [NASA-CASE-ARC-10970-1] c 36 N77-25501
 Accumulator
 [NASA-CASE-MFS-19287-1] c 34 N77-30399
 Apparatus for measuring a sorbate dispersed in a fluid stream
 [NASA-CASE-ARC-10896-1] c 35 N78-19465

Flow compensating pressure regulator
 [NASA-CASE-LEW-12718-1] c 34 N78-25351
 Fluid valve assembly
 [NASA-CASE-MSC-12731-1] c 37 N78-25426
 Positive isolation disconnect
 [NASA-CASE-MSC-16043-1] c 37 N79-11402
 Fluid velocity measuring device
 [NASA-CASE-LAR-11729-1] c 34 N79-12359
 Hot foil transducer skin friction sensor
 [NASA-CASE-LAR-12321-1] c 35 N82-24470
 Dual laser optical system and method for studying fluid flow
 [NASA-CASE-MFS-25315-1] c 36 N83-29680

FLUID INJECTION

Apparatus for igniting solid propellants Patent
 [NASA-CASE-XLE-00207] c 28 N70-33375
 Method of igniting solid propellants Patent
 [NASA-CASE-XLE-01988] c 27 N71-15634
 Aerodynamic spike nozzle Patent
 [NASA-CASE-XGS-01143] c 31 N71-15647
 Process of forming particles in a cryogenic path Patent
 [NASA-CASE-NPO-10250] c 23 N71-16212
 Apparatus for purging systems handling toxic, corrosive, noxious and other fluids Patent
 [NASA-CASE-XMS-01905] c 12 N71-21089
 Tertiary flow injection thrust vectoring system Patent
 [NASA-CASE-MFS-20831] c 28 N71-29153
 Programmable physiological infusion
 [NASA-CASE-ARC-10447-1] c 52 N74-22771

FLUID JETS

Propeller blade loading control Patent
 [NASA-CASE-XAC-00139] c 02 N70-34856

FLUID LOGIC

Logic AND gate for fluid circuits Patent
 [NASA-CASE-XLA-07391] c 12 N71-17579

FLUID MECHANICS

Leak detector Patent
 [NASA-CASE-LAR-10323-1] c 12 N71-17573
 Parallel-plate viscometer with double diaphragm suspension
 [NASA-CASE-NPO-11387] c 14 N73-14429
 Modified face seal for positive film stiffness
 [NASA-CASE-LEW-12989-1] c 37 N82-12442

FLUID POWER

Fluid power transmission Patent
 [NASA-CASE-XMS-01445] c 12 N71-16031
 Fluid power transmitting gas bearing Patent
 [NASA-CASE-ERC-10097] c 15 N71-28465

FLUID PRESSURE

Flow compensating pressure regulator
 [NASA-CASE-LEW-12718-1] c 34 N78-25351
 Self-stabilizing radial face seal
 [NASA-CASE-LEW-12991-1] c 37 N81-24442
 Pressure letdown method and device for coal conversion systems
 [NASA-CASE-NPO-15100-1] c 44 N84-14583

FLUID ROTOR GYROSCOPES

Piezoelectric pump Patent
 [NASA-CASE-XNP-05429] c 26 N71-21824

FLUID SWITCHING ELEMENTS

Booster tank system Patent
 [NASA-CASE-MSC-12390] c 27 N71-29155

FLUID TRANSMISSION LINES

Low heat leak connector for cryogenic system
 [NASA-CASE-XLE-02367-1] c 31 N79-21225

FLUIDIC CIRCUITS

Technique of duplicating fragile core
 [NASA-CASE-XLA-07829] c 15 N72-16329
 Flow measuring apparatus
 [NASA-CASE-LEW-12078-1] c 35 N75-30503

FLUIDICS

Fluidic-thermochromic display device Patent
 [NASA-CASE-ERC-10031] c 12 N71-18603
 Plasma fluidic hybrid display Patent
 [NASA-CASE-ERC-10100] c 09 N71-33519
 Fluidic proportional thruster system
 [NASA-CASE-ARC-10106-1] c 28 N72-22769
 Fluid pressure amplifier and system
 [NASA-CASE-LAR-10868-1] c 33 N74-11050
 Fluid valve assembly
 [NASA-CASE-MSC-12731-1] c 37 N78-25426

FLUIDIZED BED PROCESSORS

Continuous coal processing method
 [NASA-CASE-NPO-13758-2] c 31 N81-15154
 Fluidized bed coal combustion reactor
 [NASA-CASE-NPO-14273-1] c 25 N82-11144
 Solar heated fluidized bed gasification system
 [NASA-CASE-NPO-15071-1] c 44 N82-16475
 Use of glow discharge in fluidized beds
 [NASA-CASE-ARC-11245-1] c 28 N82-18401
 Fluidized bed coal liquefaction
 [NASA-CASE-NPO-15891-1] c 25 N83-36120
 Fluidized bed liquefaction of biomass
 [NASA-CASE-NPO-15907-1] c 25 N83-36121

- Fluidized bed desulfurization
[NASA-CASE-NPO-15924-1] c 25 N83-36122
- Fluidized bed gasification of biomass to methane
[NASA-CASE-NPO-15903-1] c 44 N84-12635
- FLUIDS**
- Automated fluid chemical analyzer Patent
[NASA-CASE-XNP-09451] c 06 N71-26754
- Bacteria detection instrument and method
[NASA-CASE-GSC-11533-1] c 14 N73-13435
- Low outgassing polydimethylsiloxane material and preparation thereof
[NASA-CASE-GSC-11358-1] c 06 N73-26100
- Fluid mass sensor for a zero gravity environment
[NASA-CASE-MSC-14653-1] c 35 N77-19385
- FLUORESCENCE**
- Apparatus for producing three-dimensional recordings of fluorescence spectra Patent
[NASA-CASE-XGS-01231] c 14 N70-41676
- Internal work light Patent
[NASA-CASE-XKS-05932] c 09 N71-26787
- Chromato-fluorographic drug detector --- device for detecting and recording fluorescent properties of materials
[NASA-CASE-ARC-10633-1] c 25 N74-26947
- Fluorescence detector for monitoring atmospheric pollutants
[NASA-CASE-NPO-13231-1] c 45 N75-27585
- Fluorescent radiation converter
[NASA-CASE-GSC-12528-1] c 74 N81-24900
- FLUORIDES**
- Self-lubricating fluoride metal composite materials Patent
[NASA-CASE-XLE-08511] c 18 N71-23710
- Corrosion resistant beryllium Patent
[NASA-CASE-LEW-10327] c 17 N71-33408
- Perfluoro polyether acyl fluorides
[NASA-CASE-NPO-10765] c 06 N72-20121
- FLUORINATION**
- Highly fluorinated polyurethanes
[NASA-CASE-NPO-10767-2] c 06 N72-27151
- Fluorinated esters of polycarboxylic acids
[NASA-CASE-MFS-21040-1] c 06 N73-30098
- FLUORINE**
- Reaction of fluorine with polyperfluoropolyenes
[NASA-CASE-NPO-10862] c 06 N72-22107
- Process for the preparation of fluorine containing crosslinked elastomeric polytriazine and product so produced
[NASA-CASE-ARC-11248-1] c 27 N81-17259
- FLUORINE COMPOUNDS**
- Fluorine-containing polyformals
[NASA-CASE-XMF-06900-1] c 27 N79-21191
- Precision heat forming of tetrafluoroethylene tubing
[NASA-CASE-MSC-18430-1] c 37 N82-24491
- FLUORO COMPOUNDS**
- New polymers of perfluorobutadiene and method of manufacture Patent application
[NASA-CASE-NPO-10863] c 06 N70-11251
- Method of polymerizing perfluorobutadiene Patent application
[NASA-CASE-NPO-10447] c 06 N70-11252
- Fluorohydroxy ethers
[NASA-CASE-MFS-10507] c 06 N73-30101
- Highly fluorinated polymers
[NASA-CASE-MFS-11492] c 06 N73-30102
- Highly fluorinated polyurethanes
[NASA-CASE-NPO-10767-1] c 06 N73-33076
- Utilization of oxygen difluoride for syntheses of fluoropolymers
[NASA-CASE-NPO-12061-1] c 27 N76-16228
- The 1,1,1-triaryl-2,2,2-trifluoroethanes and process for their synthesis
[NASA-CASE-ARC-11097-1] c 25 N82-24312
- FLUOROCARBONS**
- Electrically conductive fluorocarbon polymer
[NASA-CASE-XLE-08774-2] c 06 N72-25150
- FLUOROPOLYMERS**
- Perfluoroalkyl polytriazines containing pendent iododifluoromethyl groups
[NASA-CASE-ARC-11241-1] c 25 N81-14016
- Texturing polymer surfaces by transfer casting --- cardiovascular prosthesis
[NASA-CASE-LEW-13120-1] c 27 N82-28440
- Surface texturing of fluoropolymers
[NASA-CASE-LEW-13028-1] c 27 N82-33521
- FLUTTER**
- Antiflutter ball check valve Patent
[NASA-CASE-XNP-01152] c 15 N70-41811
- Suppression of flutter
[NASA-CASE-LAR-10682-1] c 02 N73-26004
- Decoupler pylon: wing/store flutter suppressor
[NASA-CASE-LAR-12468-1] c 08 N82-32373
- Model mount system for testing flutter
[NASA-CASE-LAR-12950-1] c 09 N83-25727
- FLUX (RATE)**
- Two axis fluxgate magnetometer Patent
[NASA-CASE-GSC-10441-1] c 14 N71-27325
- FLUX DENSITY**
- Particle beam measurement apparatus using beam kinetic energy to change the heat sensitive resistance of the detection probe Patent
[NASA-CASE-XLE-00243] c 14 N70-38602
- FLUXES**
- Solder flux which leaves corrosion-resistant coating Patent
[NASA-CASE-XNP-03459-2] c 18 N71-15688
- Soldering with solder flux which leaves corrosion resistant coating Patent
[NASA-CASE-XNP-03459] c 15 N71-21078
- FLYWHEELS**
- Energy storage apparatus
[NASA-CASE-GSC-12030-1] c 44 N78-24608
- Rotatable mass for a flywheel
[NASA-CASE-MFS-23051-1] c 37 N79-10422
- Safety flywheel --- using flexible materials energy storage
[NASA-CASE-HQN-10888-1] c 44 N79-14527
- Method of manufacture of bonded fiber flywheel --- fiberglass-epoxy
[NASA-CASE-MFS-23674-1] c 24 N81-29163
- FOAMS**
- Foam generator Patent
[NASA-CASE-XLA-00838] c 03 N70-36778
- Method for continuous variation of propellant flow and thrust in propulsive devices Patent
[NASA-CASE-XLE-00177] c 28 N70-40367
- Filament wound container Patent
[NASA-CASE-XLE-03803] c 15 N71-23818
- Novel polycarboxylic prepolymeric materials and polymers thereof Patent
[NASA-CASE-NPO-10596] c 06 N71-25929
- Thermally activated foaming compositions Patent
[NASA-CASE-LAR-10373-1] c 18 N71-26155
- Method of making a solid propellant rocket motor Patent
[NASA-CASE-XLA-04126] c 28 N71-26779
- Thickness measuring and injection device Patent
[NASA-CASE-MFS-20261] c 14 N71-27005
- Method of making foamed materials in zero gravity
[NASA-CASE-XMF-09902] c 15 N72-11387
- Polyimide foam for the thermal insulation and fire protection
[NASA-CASE-ARC-10464-1] c 27 N74-12812
- Intumescent composition, foamed product prepared therewith and process for making same
[NASA-CASE-ARC-10304-2] c 27 N74-27037
- Polymeric foams from cross-linkable poly-n-arylenebenzimidazoles
[NASA-CASE-ARC-11008-1] c 27 N78-31232
- Ambient cure polyimide foams --- thermal resistant foams
[NASA-CASE-ARC-11170-1] c 27 N79-11215
- Catalysts for polyimide foams from aromatic isocyanates and aromatic dianhydrides --- flame retardant foams
[NASA-CASE-ARC-11107-1] c 25 N80-16116
- Insulation bonding test system
[NASA-CASE-MFS-25862-1] c 27 N83-19903
- Cryogenic insulation strength and bond tester
[NASA-CASE-MFS-25910-1] c 27 N84-11297
- FOCI**
- High speed multi focal plane optical system
[NASA-CASE-GSC-12683-1] c 74 N83-36898
- FOCUSING**
- X-ray reflection collimator adapted to focus X-radiation directly on a detector Patent
[NASA-CASE-XHQ-04106] c 14 N70-40240
- Focussing system for an ion source having apertured electrodes Patent
[NASA-CASE-XNP-03332] c 09 N71-10618
- Petzval type objective including field shaping lens Patent
[NASA-CASE-GSC-10700] c 23 N71-30027
- Absolute focus lock for microscopes
[NASA-CASE-LAR-10184] c 14 N72-22445
- Electron beam controller --- using magnetic field to refocus spent electron beam in microwave oscillator tube
[NASA-CASE-LEW-11617-1] c 33 N74-10195
- Automatic focus control for facsimile cameras
[NASA-CASE-LAR-11213-1] c 35 N75-15014
- Multifocal focusing collimator --- for scanning small near radiation sources
[NASA-CASE-MFS-20932-1] c 35 N75-19616
- RF beam center location method and apparatus for power transmission system
[NASA-CASE-NPO-13821-1] c 44 N78-28594
- Scanning afocal laser velocimeter projection lens system
[NASA-CASE-LAR-12328-1] c 36 N82-32712
- Gyrotron transmitting tube
[NASA-CASE-LEW-13429-1] c 33 N83-31952
- FOG**
- Anti-fog composition --- for prevention of fogging on surfaces such as space helmet visors and windshields
[NASA-CASE-MSC-13530-2] c 23 N75-14834
- Environmental fog/rain visual display system for aircraft simulators
[NASA-CASE-ARC-11158-1] c 09 N82-24212
- FOILS (MATERIALS)**
- Foil seal
[NASA-CASE-XLE-05130] c 15 N69-21362
- Method of making an insulation foil
[NASA-CASE-LEW-11484-1] c 24 N75-33181
- Partial interlaminar separation system for composites
[NASA-CASE-LAR-12065-1] c 24 N81-14000
- Method of making a partial interlaminar separation composite system
[NASA-CASE-LAR-12065-2] c 24 N81-33235
- FOLDING**
- Folding apparatus Patent
[NASA-CASE-XLA-00137] c 15 N70-33180
- FOLDING STRUCTURES**
- Space and atmospheric reentry vehicle Patent
[NASA-CASE-XGS-00260] c 31 N70-37924
- Collapsible loop antenna for space vehicle Patent
[NASA-CASE-XMF-00437] c 07 N70-40202
- Folding boom assembly Patent
[NASA-CASE-XGS-00938] c 32 N70-41367
- Foldable conduit Patent
[NASA-CASE-MSC-00620] c 32 N70-41579
- Foldable solar concentrator Patent
[NASA-CASE-XLA-04622] c 03 N70-41580
- Wing deployment method and apparatus Patent
[NASA-CASE-XMS-00907] c 02 N70-41630
- Variable sweep aircraft Patent
[NASA-CASE-XLA-03659] c 02 N71-11041
- Radiator deployment actuator Patent
[NASA-CASE-MSC-11817-1] c 15 N71-26611
- Foldable construction block
[NASA-CASE-MSC-12233-1] c 15 N72-25454
- Folding structure fabricated of rigid panels
[NASA-CASE-XHQ-02146] c 18 N75-27040
- Collapsible corrugated horn antenna
[NASA-CASE-LAR-11745-1] c 32 N80-29539
- Foldable beam
[NASA-CASE-LAR-12077-1] c 31 N81-25259
- Telescoping columns --- parabolic antenna support
[NASA-CASE-LAR-12195-1] c 31 N81-27324
- Sequentially deployable maneuverable tetrahedral beam
[NASA-CASE-LAR-13098-1] c 31 N83-35178
- Self-locking telescoping manipulator arm
[NASA-CASE-MFS-25906-1] c 54 N84-11761
- Synchronously deployable truss structure
[NASA-CASE-LAR-13117-1] c 18 N84-16250
- FOOD**
- Bacteria detection instrument and method
[NASA-CASE-GSC-11533-1] c 14 N73-13435
- FOOTPRINTS**
- Multibeam single frequency synthetic aperture radar processor for imaging separate range swaths
[NASA-CASE-NPO-14525-2] c 32 N83-31918
- FORCE**
- Ferrofluidic solenoid
[NASA-CASE-NPO-11738-1] c 09 N73-30185
- FORCE DISTRIBUTION**
- Device for handling heavy loads
[NASA-CASE-XNP-04969] c 11 N69-27466
- Two force component measuring device Patent
[NASA-CASE-XAC-04886-1] c 14 N71-20439
- Tensile strength testing device Patent
[NASA-CASE-XNP-05634] c 15 N71-24834
- Impact monitoring apparatus
[NASA-CASE-MSC-15626-1] c 14 N72-25411
- Variable direction force coupler
[NASA-CASE-MFS-20317] c 15 N73-13463
- Subminiature insertable force transducer --- including a strain gage to measure forces in muscles
[NASA-CASE-NPO-13423-1] c 33 N75-31329
- FORCED VIBRATION**
- Seismic vibration source
[NASA-CASE-NPO-14112-1] c 46 N79-22679
- FOREBODIES**
- Aerodynamic side-force alleviator means
[NASA-CASE-LAR-12326-1] c 02 N81-14968
- FORMALDEHYDE**
- An improved synthesis of 2,4,8,10-tetroxaspiro (5.5) undecane
[NASA-CASE-ARC-11243-2] c 23 N80-31472
- Synthesis of polyformals
[NASA-CASE-ARC-11244-1] c 23 N82-16174
- FORMAT**
- Digital data reformatter/deserializer
[NASA-CASE-NPO-13676-1] c 60 N79-20751

FORMATES

Fluorine containing polyurethane
[NASA-CASE-MFS-10509] c 06 N73-30103

FORMING TECHNIQUES

Wire grid forming apparatus Patent
[NASA-CASE-XLE-00023] c 15 N70-33330
Method for forming plastic materials Patent
[NASA-CASE-XMS-05516] c 15 N71-17803
Method of making tubes Patent
[NASA-CASE-XGS-04175] c 15 N71-18579
Magnetomotive metal working device Patent
[NASA-CASE-XMF-03793] c 15 N71-24833
Apparatus for making curved reflectors Patent
[NASA-CASE-XLE-08917-2] c 15 N71-24836
Method of forming shapes from planar sheets of thermosetting materials
[NASA-CASE-NPO-11036] c 15 N72-24522
Method of heat treating a formed powder product material
[NASA-CASE-LEW-10805-3] c 26 N74-10521
Molding apparatus --- for thermosetting plastic compositions
[NASA-CASE-LAR-10489-2] c 31 N74-32920
Process for making sheets with parallel pores of uniform size
[NASA-CASE-GSC-10984-1] c 37 N75-26371
Drilled ball bearing with a one piece anti-tipping cage assembly
[NASA-CASE-LEW-11925-1] c 37 N75-31446
Apparatus for forming dish ion thruster grids
[NASA-CASE-LEW-11694-2] c 37 N76-14461
Acoustic energy shaping
[NASA-CASE-NPO-13802-1] c 71 N78-10837
Method of forming metal hydride films
[NASA-CASE-LEW-12083-1] c 37 N78-13436
Method of producing complex aluminum alloy parts of high temper, and products thereof
[NASA-CASE-MSC-19693-1] c 26 N78-24333
Solar cell with improved N-region contact and method of forming the same
[NASA-CASE-NPO-14205-1] c 44 N79-31752
Method and apparatus for producing concentric hollow spheres --- inertial confinement fusion targets
[NASA-CASE-NPO-14596-1] c 31 N81-33319
Precision heat forming of tetrafluoroethylene tubing
[NASA-CASE-MSC-18430-1] c 37 N82-24491
Sphere forming method and apparatus
[NASA-CASE-NPO-15070-1] c 31 N83-35176

FORMULAS

Polymers of phosphonylmethyl-2,4- and -2,6-diamino benzenes and the like
[NASA-CASE-ARC-11506-1] c 27 N84-12313

FOUNDATIONS

Expandable support means
[NASA-CASE-NPO-11059] c 15 N72-17454
Adjustable securing base
[NASA-CASE-MSC-18430-1] c 37 N78-17383

FOURIER TRANSFORMATION

Continuous Fourier transform method and apparatus --- for the analysis of simultaneous analog signal components
[NASA-CASE-ARC-10466-1] c 60 N75-13539
Integrated optics in an electrically scanned imaging Fourier transform spectrometer
[NASA-CASE-NPO-15844-1] c 74 N83-12992

FRACTIONATION

Method and apparatus for distillation of liquids Patent
[NASA-CASE-XNP-08124] c 15 N71-27184
Electrophoretic fractional elution apparatus employing a rotational seal fraction collector
[NASA-CASE-MFS-23284-1] c 37 N80-14397
Electrophoresis device
[NASA-CASE-MFS-25426-1] c 25 N83-10126
A spillage detector for liquid chromatography systems
[NASA-CASE-MSC-20206-1] c 25 N83-29325

FRACTURE MECHANICS

Apparatus for positioning and loading a test specimen Patent
[NASA-CASE-XLE-01300] c 15 N70-41993
Elastomer toughened polyimide adhesives
[NASA-CASE-LAR-12775] c 27 N83-29390

FRACTURE STRENGTH

Process for making a high toughness-high strength ion alloy
[NASA-CASE-LEW-12542-2] c 26 N79-22271
High toughness-high strength iron alloy
[NASA-CASE-LEW-12542-3] c 26 N80-32484
Method of making a partial interlaminar separation composite system
[NASA-CASE-LAR-12065-2] c 24 N81-33235

FRAMES

Articulated multiple couch assembly Patent
[NASA-CASE-MSC-11253] c 05 N71-12343
Soft frame adjustable eyeglasses Patent
[NASA-CASE-XMS-06064] c 05 N71-23096

Expandable space frames
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Inorganic spark chamber frame and method of making the same
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High speed photo-optical time recording
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Support apparatus for dynamic testing Patent
[NASA-CASE-XMF-01772] c 11 N70-41677
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[NASA-CASE-XMF-03248] c 11 N71-10604
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[NASA-CASE-XLA-00939] c 11 N71-15926

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Free wing assembly for an aircraft
[NASA-CASE-FRC-10092-1] c 05 N79-12061

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Modification of the physical properties of freeze-dried rice
[NASA-CASE-MSC-13540-1] c 05 N72-33096

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System for and method of freezing biological tissue
[NASA-CASE-GSC-12173-1] c 51 N79-10694
Method of forming frozen spheres in a force-free drop tower
[NASA-CASE-NPO-14845-1] c 27 N82-28442

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Solar energy power system --- using Freon
[NASA-CASE-MFS-21628-1] c 44 N75-32581

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Controlled oscillator system with a time dependent output frequency
[NASA-CASE-NPO-11962-1] c 33 N74-10194
High efficiency multifrequency feed
[NASA-CASE-GSC-11909] c 32 N74-20863

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[NASA-CASE-MFS-14322] c 08 N71-18692
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[NASA-CASE-NPO-10096] c 07 N71-24583
Audio frequency marker system
[NASA-CASE-NPO-11147] c 14 N72-27408
Continuous Fourier transform method and apparatus --- for the analysis of simultaneous analog signal components
[NASA-CASE-ARC-10466-1] c 60 N75-13539
Frequency discriminator and phase detector circuit
[NASA-CASE-NPO-11515-1] c 33 N77-13315

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Bus voltage compensation circuit for controlling direct current motor
[NASA-CASE-XMS-04215-1] c 09 N69-39987
Variable frequency magnetic multivibrator Patent
[NASA-CASE-XGS-00458] c 09 N70-38604
Variable frequency magnetic multivibrator Patent
[NASA-CASE-XGS-00131] c 09 N70-38995
Automatic frequency discriminators and control for a phase-lock loop providing frequency preset capabilities Patent
[NASA-CASE-XMF-08665] c 10 N71-19467
Linear accelerator frequency control system Patent
[NASA-CASE-XGS-05441] c 10 N71-22962
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[NASA-CASE-XNP-09771] c 09 N71-24841
Low loss dichroic plate
[NASA-CASE-NPO-13171-1] c 32 N74-11000
Automatic frequency control for FM transmitter
[NASA-CASE-MFS-21540-1] c 32 N74-19790
Acoustically controlled distributed feedback laser
[NASA-CASE-NPO-13175-1] c 36 N75-31427
Reflex feed system for dual frequency antenna with frequency cutoff means
[NASA-CASE-NPO-14022-1] c 32 N78-31321
Cam-operated pitch-change apparatus
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Digital numerically controlled oscillator
[NASA-CASE-MSC-16747-1] c 33 N81-17349
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[NASA-CASE-GSC-12804-1] c 33 N83-35228
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[NASA-CASE-GSC-12645-1] c 33 N84-16454

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Frequency to analog converter Patent
[NASA-CASE-XNP-07040] c 08 N71-12500
Static inverters which sum a plurality of waves Patent
[NASA-CASE-XMF-00663] c 08 N71-18752

Voltage to frequency converter Patent
[NASA-CASE-GSC-10022-1] c 10 N71-25882
Family of frequency to amplitude converters
[NASA-CASE-MSC-12395] c 09 N72-25257
Variable frequency inverter for ac induction motors with torque, speed and braking control
[NASA-CASE-MFS-22088-1] c 33 N75-15874

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PN lock indicator for dithered PN code tracking loop
[NASA-CASE-NPO-14435-1] c 33 N81-33405

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Antenna system using parasitic elements and two driven elements at 90 deg angle fed 180 deg out of phase Patent
[NASA-CASE-XLA-00414] c 07 N70-38200
Variable frequency oscillator with temperature compensation Patent
[NASA-CASE-XNP-03916] c 09 N71-28810
Ultra stable frequency distribution system
[NASA-CASE-NPO-13836-1] c 32 N78-15323

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Low phase noise digital frequency divider
[NASA-CASE-NPO-11569] c 10 N73-26229
Technique for extending the frequency range of digital dividers
[NASA-CASE-LAR-10730-1] c 33 N74-10223
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[NASA-CASE-NPO-13426-1] c 33 N75-31330
Electronic analog divider
[NASA-CASE-LEW-11881-1] c 33 N77-17354

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Satellite communication system and method Patent
[NASA-CASE-GSC-10118-1] c 07 N71-24621
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[NASA-CASE-KSC-10521] c 07 N73-20176

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[NASA-CASE-MSC-14649-1] c 33 N76-16331
Time domain phase measuring apparatus
[NASA-CASE-GSC-12228-1] c 33 N79-10338

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Optical tracker having overlapping reticles on parallel axes Patent
[NASA-CASE-XGS-05715] c 23 N71-16100
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[NASA-CASE-MFS-21540-1] c 32 N74-19790
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Frequency modulated oscillator
[NASA-CASE-MFS-23181-1] c 33 N77-17351
FM/CW radar system
[NASA-CASE-MFS-22234-1] c 32 N79-10264
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Method and apparatus for Doppler frequency modulation of radiation
[NASA-CASE-NPO-14524-1] c 32 N80-24510
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[NASA-CASE-XMF-04958-1] c 10 N71-26414
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[NASA-CASE-XGS-01983] c 10 N70-41964
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[NASA-CASE-XNP-09830] c 14 N71-26266
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- Apparatus and method for determining the position of a radiant energy source
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- Serrodyne frequency converter re-entrant amplifier system Patent
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- Elimination of frequency shift in a multiplex communication system Patent
[NASA-CASE-XNP-01306] c 07 N71-20814
- Laser fluid velocity detector Patent
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- Laser Doppler velocity simulator --- to induce frequency shift
[NASA-CASE-LAR-12176-1] c 36 N80-16321

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- Frequency shift keying apparatus Patent
[NASA-CASE-XGS-01537] c 07 N71-23405
- A single frequency multitransmitter telemetry system
[NASA-CASE-LAR-13006-1] c 17 N83-20995

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[NASA-CASE-XGS-03644] c 16 N71-18614
- Broadband stable power multiplier Patent
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[NASA-CASE-XNP-08875] c 10 N71-23099
- Atomic standard with variable storage volume
[NASA-CASE-GSC-11895-1] c 35 N76-15436
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[NASA-CASE-XNP-03623] c 09 N73-28084
- Ultra stable frequency distribution system
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- System for synchronizing synthesizers of communication systems
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- Digitally controlled frequency synthesizer Patent
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- System for synchronizing synthesizers of communication systems
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[NASA-CASE-ARC-11372-1] c 08 N83-12098
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[NASA-CASE-MFS-14971] c 15 N71-24984
- Unidirectional flexural pivot
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- Static coefficient test method and apparatus
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[NASA-CASE-XGS-00373] c 23 N71-15978
- Production of hollow components for rolling element bearings by diffusion welding
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- Air cushion lift pad Patent
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- Method and apparatus of simulating zero gravity conditions Patent
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- Device for determining frost depth and density
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- Acoustic suspension system
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- Reactant pressure differential control for fuel cell gases
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- Method of making membranes
[NASA-CASE-XNP-04264] c 03 N69-21337
- Combined electrolysis device and fuel cell and method of operation Patent
[NASA-CASE-XLE-01645] c 03 N71-20904
- Sealing member and combination thereof and method of producing said sealing member Patent
[NASA-CASE-XMS-01625] c 15 N71-23022
- Ion-exchange membrane with platinum electrode assembly Patent
[NASA-CASE-XMS-02063] c 03 N71-29044
- Reconstituted asbestos matrix --- for use in fuel or electrolysis cells
[NASA-CASE-MSC-12568-1] c 24 N76-14204
- Dual membrane hollow fiber fuel cell and method of operating same
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- Fuel combustor
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- Wingtip vortex propeller
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- Attitude and propellant flow control system and method Patent
[NASA-CASE-XMF-00185] c 21 N70-34539
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- Buoyant anti-slosh system Patent
[NASA-CASE-XLA-04605] c 32 N71-16106
- Control valve and co-axial variable injector Patent
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- Force-balanced, throttle valve Patent
[NASA-CASE-NPO-10808] c 15 N71-27432
- Gas turbine engine fuel control
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- Electrical servo actuator bracket --- fuel control valves on jet engines
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- Two-step rocket engine bipropellant valve Patent
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- Passively regulated water electrolysis rocket engine Patent
[NASA-CASE-XGS-08729] c 28 N71-14044
- Oil cooling system for a gas turbine engine
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- Injector-valve device Patent
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- Rocket engine injector Patent
[NASA-CASE-XLE-00111] c 28 N70-38199
- Injector assembly for liquid fueled rocket engines Patent
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- Injection head for delivering liquid fuel and oxidizers
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- Injector for use in high voltage isolators for liquid feed lines
[NASA-CASE-NPO-11377] c 15 N73-27406
- Supercritical fuel injection system
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- Low thrust monopropellant engine
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- Oil cooling system for a gas turbine engine
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- Fluidized bed gasification of biomass to methane
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- Fuel injection pump for internal combustion engines Patent
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- Propellant feed isolator Patent
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- Supersonic-combustion rocket
[NASA-CASE-LEW-11058-1] c 20 N74-13502
- Fuel combustor
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- Fuel delivery system including heat exchanger means
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- Supercritical fuel injection system
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- Apparatus for improving the fuel efficiency of a gas turbine engine
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- Venting vapor apparatus Patent
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- Automatic pump Patent
[NASA-CASE-XNP-04731] c 15 N71-24042
- Propellant tank pressurization system Patent
[NASA-CASE-XNP-00650] c 27 N71-28929

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- Reduced gravity liquid configuration simulator
[NASA-CASE-XLE-02624] c 12 N69-39988
- Flexible ring slosh damping baffle Patent
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- Buoyant anti-slosh system Patent
[NASA-CASE-XLA-04605] c 32 N71-16106
- Instrument for measuring the dynamic behavior of liquids Patent
[NASA-CASE-XLA-05541] c 12 N71-26387
- Electrical apparatus for detection of thermal decomposition of insulation Patent
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- High performance channel injection sealant invention abstract
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- Cryogenic insulation strength and bond tester
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- Injector-valve device Patent
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- Semitoroidal diaphragm cavitating valve Patent
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- Filler valve Patent
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- Combination automatic-starting electrical plasma torch and gas shutoff valve --- for satellite attitude control
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- Line following servosystem Patent
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- Digital quasi-exponential function generator
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- Electro-mechanical sine/cosine generator
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- Function generator for synthesizing complex vibration mode patterns
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- Derivation of a tangent function using an integrated circuit four-quadrant multiplier
[NASA-CASE-MSC-13907-1] c 10 N73-26230

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- Unfurlable structure including coiled strips thrust launched upon tension release Patent
[NASA-CASE-HON-00937] c 07 N71-28979
- Singly-curved reflector for use in high-gain antennas
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- Furlable antenna --- antenna design
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- Black-body furnace Patent
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- Induction furnace with perforated tungsten foil shielding Patent
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- High temperature strain gage calibration fixture
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[NASA-CASE-XGS-04531] c 03 N69-24267
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[NASA-CASE-NPO-14143-1] c 25 N81-14015
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GAS BAGS

- Omnidirectional multiple impact landing system Patent
[NASA-CASE-XLA-09881] c 31 N71-16085

GAS BEARINGS

- Externally pressurized fluid bearing Patent
[NASA-CASE-XMF-00515] c 15 N70-34664
Slit regulated gas journal bearing Patent
[NASA-CASE-XNP-00476] c 15 N70-38620
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[NASA-CASE-XMF-00339] c 15 N70-39896
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Fluid power transmission Patent
[NASA-CASE-XMS-01445] c 12 N71-16031
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[NASA-CASE-XGS-02011] c 15 N71-20739
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- Micropacked column for a chromatographic system
[NASA-CASE-XNP-04816] c 06 N69-39936
Baseline stabilization system for ionization detector Patent
[NASA-CASE-XNP-03128] c 10 N70-41991
Procedure and apparatus for determination of water in nitrogen tetroxide
[NASA-CASE-NPO-10234] c 06 N72-17094
Analysis of hydrogen-deuterium mixtures
[NASA-CASE-NPO-11322] c 06 N72-25146
Ultraviolet atomic emission detector
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- Method and means for helium/hydrogen ratio measurement by alpha scattering
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Microwave limb sounder --- measuring trace gases in the upper atmosphere
[NASA-CASE-NPO-14544-1] c 46 N82-12685
Mobile sampler for use in acquiring samples of terrestrial atmospheric gases
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- Gas core nuclear reactor Patent
[NASA-CASE-LEW-10250-1] c 22 N71-28759

GAS COOLING

- Refrigeration apparatus
[NASA-CASE-NPO-10309] c 15 N69-23190
Gas cooled high temperature thermocouple Patent
[NASA-CASE-XLE-09475-1] c 33 N71-15568
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- Dynamic sensor Patent
[NASA-CASE-XAC-02877] c 14 N70-41681
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[NASA-CASE-XLA-03375] c 16 N71-24074
Device for measuring light scattering wherein the measuring beam is successively reflected between a pair of parallel reflectors Patent
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Method and apparatus for convection control of metallic halide vapor density in a metallic halide laser
[NASA-CASE-NPO-15021-1] c 36 N83-10417

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- Method for detecting hydrogen gas
[NASA-CASE-XMF-03873] c 06 N69-39733
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[NASA-CASE-MFS-11537] c 14 N71-20442
Leak detector wherein a probe is monitored with ultraviolet radiation Patent
[NASA-CASE-ERC-10034] c 15 N71-24896
Miniature carbon dioxide sensor and methods
[NASA-CASE-MS-C-13332-1] c 14 N72-21408
Fluorescence detector for monitoring atmospheric pollutants
[NASA-CASE-NPO-13231-1] c 45 N75-27585
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Optically selective, acoustically resonant gas detecting transducer
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Stark cell optoacoustic detection of constituent gases in sample
[NASA-CASE-NPO-14143-1] c 25 N81-14015

Stark effect spectrophone for continuous absorption spectra monitoring --- a technique for gas analysis
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GAS EXPANSION

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[NASA-CASE-XNP-03378] c 03 N71-11051

Refrigeration apparatus Patent
[NASA-CASE-XNP-08877] c 15 N71-23025

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[NASA-CASE-NPO-10117] c 15 N71-15608

High pressure gas filter system Patent
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Burst diaphragm flow initiator Patent
[NASA-CASE-MFS-12915] c 11 N71-17600

Method of recording a gas flow pattern Patent
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Compact hydrogenator
[NASA-CASE-NPO-11682-1] c 35 N74-15127

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Quick disconnect coupling
[NASA-CASE-NPO-11202] c 15 N72-25450

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[NASA-CASE-XAC-00319] c 25 N70-41628

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[NASA-CASE-XLE-03494] c 27 N71-21819

Compact hydrogenator
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In-situ laser retorting of oil shale
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Gas turbine engine with recirculating bleed
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[NASA-CASE-XLA-01400] c 07 N70-41331

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Cantilever mounted resilient pad gas bearing
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GAS MASERS

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[NASA-CASE-XGS-01504] c 16 N70-41578

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Method of producing a storage bulb for an atomic hydrogen maser
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Vapor pressure measuring system and method Patent
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Analysis of hydrogen-deuterium mixtures
[NASA-CASE-NPO-11322] c 06 N72-25146

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[NASA-CASE-ARC-10263-1] c 14 N72-22438

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[NASA-CASE-LAR-11139-1] c 35 N74-32878

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[NASA-CASE-MSC-16258-1] c 45 N79-12584

Gas levitator having fixed levitation node for containerless processing
[NASA-CASE-MFS-25509-1] c 35 N83-24828

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GAS TRANSPORT

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[NASA-CASE-LEW-11179-1] c 27 N76-16229

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Oil cooling system for a gas turbine engine
[NASA-CASE-LEW-12830-1] c 07 N77-23106

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[NASA-CASE-LEW-12477-1] c 37 N77-32501

Oil cooling system for a gas turbine engine
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Integrated gas turbine engine-nacelle
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Variable mixer propulsion cycle
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Automotive gas turbine fuel control
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Gas turbine engine with recirculating bleed
[NASA-CASE-LEW-12452-1] c 07 N78-25089

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Integrated gas turbine engine-nacelle
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- Power control for hot gas engines
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- Apparatus for sensor failure detection and correction in a gas turbine engine control system
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- Active clearance control system for a turbomachine
[NASA-CASE-LEW-12938-1] c 07 N82-32366
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- Air modulation apparatus --- cooling gas turbine engines
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- Silicon-slurry/aluminate coating --- protecting gas turbine engine vanes and blades
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- Gas turbine exhaust nozzle --- for noise reduction
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- Gas turbine engine with convertible accessories
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- Apparatus and method for reducing thermal stress in a turbine rotor
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- Method and turbine for extracting kinetic energy from a stream of two-phase fluid
[NASA-CASE-NPO-14130-1] c 34 N79-20335
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- Shrink-fit gas valve Patent
[NASA-CASE-XGS-00587] c 15 N70-35087
- Thermally operated valve Patent
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- Transfer valve Patent
[NASA-CASE-XAC-01158] c 15 N71-23051
- Slow opening valve
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- Reactant pressure differential control for fuel cell gases
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GAS WELDING

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[NASA-CASE-XMF-02039] c 15 N71-15871
- Grain refinement control in TIG arc welding
[NASA-CASE-MS-19095-1] c 37 N75-19683

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- Refractory coatings and method of producing the same
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- Apparatus and method to keep the walls of a free space reactor free from deposits of solid materials
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- Diatomic infrared gasdynamic laser --- for producing different wavelengths
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- Gas purged dry box glove Patent
[NASA-CASE-XLE-02531] c 05 N71-23080
- Gas core nuclear reactor Patent
[NASA-CASE-LEW-10250-1] c 22 N71-28759
- Gas diffusion liquid storage bag and method of use for storing blood
[NASA-CASE-NPO-13930-1] c 52 N79-14749

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- Gas core nuclear reactor Patent
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- Gas liquefaction and dispensing apparatus Patent
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[NASA-CASE-XGS-02441] c 15 N70-41629
- Reinforced polyquinoxaline gasket and method of preparing the same --- resistant to ionizing radiation and liquid hydrogen temperatures
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- SCR blocking pulse gate amplifier Patent
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- Logic AND gate for fluid circuits Patent
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- Synchronous counter Patent
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- Memory device for two-dimensional radiant energy array computers
[NASA-CASE-GSC-11839-2] c 60 N78-10709
- Transformer regulated self-stabilizing chopper
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- Controller for computer control of brushless dc motors --- automobile engines
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- Combinational logic for generating gate drive signals for phase control rectifiers
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- Pulsed phase locked loop strain monitor --- voltage controlled oscillators
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- Airfoil shape for flight at subsonic speeds --- design analysis and aerodynamic characteristics of the GAW-1 airfoil
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- Precision stepping drive Patent:
[NASA-CASE-MFS-14772] c 15 N71-17692
- Bidirectional step torque filter with zero backlash characteristic Patent
[NASA-CASE-XGS-04227] c 15 N71-21744
- Self-lubricating gears and other mechanical parts Patent
[NASA-CASE-MFS-14971] c 15 N71-24984
- Concentric differential gearing arrangement
[NASA-CASE-ARC-10462-1] c 37 N74-27901
- Sequencing device utilizing planetary gear set
[NASA-CASE-MS-19514-1] c 37 N79-20377
- Power control for hot gas engines
[NASA-CASE-NPO-14220-1] c 37 N81-14318
- Clutchless multiple drive source for output shaft
[NASA-CASE-ARC-11325-1] c 37 N82-22496
- Directional gear ratio transmission
[NASA-CASE-LAR-12644-1] c 37 N82-29605

- Self-locking telescoping manipulator arm
[NASA-CASE-MFS-25906-1] c 54 N84-11761

GELLED ROCKET PROPELLANTS

- Process of forming particles in a cryogenic path Patent
[NASA-CASE-NPO-10250] c 23 N71-16212

GELS

- Intermittent type silica gel adsorption refrigerator Patent
[NASA-CASE-XNP-00920] c 15 N71-15906

GENERAL AVIATION AIRCRAFT

- Explosively activated egress area
[NASA-CASE-LAR-12624-1] c 01 N83-35992

GENERATORS

- Apparatus for establishing flow of a fluid mass having a known velocity
[NASA-CASE-MFS-21424-1] c 34 N74-27730

GEODESY

- Geodetic distance measuring apparatus
[NASA-CASE-GSC-12609-2] c 36 N83-29681

GEODETIC SURVEYS

- Geodetic distance measuring apparatus
[NASA-CASE-GSC-12609-1] c 36 N81-22344

GEODIMETERS

- Geodetic distance measuring apparatus
[NASA-CASE-GSC-12609-1] c 36 N81-22344

GEOLOGICAL SURVEYS

- Borehole geological assessment
[NASA-CASE-NPO-14231-1] c 46 N80-10709
- Geological assessment probe
[NASA-CASE-NPO-14558-1] c 46 N80-24906

GERMANIUM

- Germanium coated microbridge and method
[NASA-CASE-MFS-23274-1] c 33 N78-13320

GIMBALS

- Gimbaled, partially submerged rocket nozzle Patent
[NASA-CASE-XMF-01544] c 28 N70-34162
- Azimuth laying system Patent
[NASA-CASE-XMF-01669] c 21 N71-23289
- Passive caging mechanism Patent
[NASA-CASE-GSC-10306-1] c 15 N71-24694
- Hermetic sealed vibration damper Patent
[NASA-CASE-MS-10959] c 15 N71-26243
- Bearing and gimbal lock mechanism and spiral flex lead module Patent
[NASA-CASE-GSC-10556-1] c 31 N71-26537
- Failure detection and control means for improved drift performance of a gimbaled platform system
[NASA-CASE-MFS-23551-1] c 04 N76-26175
- Autonomous navigation system --- gyroscopic pendulum for air navigation
[NASA-CASE-ARC-11257-1] c 04 N81-21047
- Aircraft body-axis rotation measurement system
[NASA-CASE-FRC-11043-1] c 06 N83-33882

GLANDS (SEALS)

- Spiral groove seal
[NASA-CASE-XLE-10326-2] c 15 N72-29488
- Circumferential shaft seal
[NASA-CASE-LEW-12119-2] c 37 N81-26447

GLASS

- Method for producing a solar cell having an integral protective covering
[NASA-CASE-XGS-04531] c 03 N69-24267
- Reduced gravity liquid configuration simulator
[NASA-CASE-XLE-02624] c 12 N69-39988
- Silicon solar cell with cover glass bonded to cell by metal pattern Patent
[NASA-CASE-XLE-08569] c 03 N71-23449
- Apparatus for applying cover slides
[NASA-CASE-NPO-10575] c 03 N72-25019
- Glass-to-metal seals comprising relatively high expansion metals
[NASA-CASE-LEW-10698-1] c 37 N74-21063
- Covered silicon solar cells and method of manufacture --- with polymeric films
[NASA-CASE-LEW-11065-2] c 44 N76-14600
- Window defect planar mapping technique
[NASA-CASE-MS-19442-1] c 74 N77-10899
- Method of forming shrink-fit compression seal
[NASA-CASE-LAR-11563-1] c 37 N77-23482
- Reaction cured glass and glass coatings
[NASA-CASE-ARC-11051-1] c 27 N78-32260
- Glass heating panels and method for preparing the same from architectural reflective glass
[NASA-CASE-NPO-15753-1] c 33 N82-23396
- Method of forming frozen spheres in a force-free drop tower
[NASA-CASE-NPO-14845-1] c 27 N82-28442
- Method for milling and drilling glass
[NASA-CASE-GSC-12636-1] c 31 N83-27058
- Acoustic bubble removal method
[NASA-CASE-NPO-15334-1] c 71 N83-35781

GLASS COATINGS

- Method of attaching a cover glass to a silicon solar cell Patent
[NASA-CASE-XLE-08569-2] c 03 N71-24681

- Process for glass coating an ion accelerator grid Patent
[NASA-CASE-LEW-10278-1] c 15 N71-28582
- Method of coating solar cell with borosilicate glass and resultant product
[NASA-CASE-GSC-11514-1] c 03 N72-24037
- Transmitting and reflecting diffuser --- using ultraviolet grade fused silica coatings
[NASA-CASE-LAR-10385-3] c 74 N78-15879
- Method for repair of thin glass coatings --- on space shuttle orbiter tiles
[NASA-CASE-KSC-11097-1] c 27 N82-33520
- High temperature glass thermal control structure and coating --- for application to spacecraft reusable heat shielding
[NASA-CASE-ARC-11164-1] c 44 N83-34448
- GLASS ELECTRODES**
Liquid junction and method of fabricating the same Patent Application
[NASA-CASE-NPO-10682] c 15 N70-34699
- Apparatus and method of inserting a microelectrode in body tissue or the like using vibration means
[NASA-CASE-NPO-13910-1] c 52 N79-27836
- GLASS FIBER REINFORCED PLASTICS**
Low density bismaleimide-carbon microballoon composites
[NASA-CASE-ARC-11040-1] c 24 N79-16915
- Method of manufacture of bonded fiber flywheel --- fiberglass-epoxy
[NASA-CASE-MFS-23674-1] c 24 N81-29163
- GLASS FIBERS**
Non-magnetic battery case Patent
[NASA-CASE-XGS-00886] c 03 N71-11053
- Lathe tool bit and holder for machining fiberglass materials
[NASA-CASE-XLA-10470] c 15 N72-21489
- Polyimide resin-fiberglass cloth laminates for printed circuit boards
[NASA-CASE-MFS-20408] c 18 N73-12604
- Method of repairing discontinuity in fiberglass structures
[NASA-CASE-LAR-10416-1] c 24 N74-30001
- Fiber modified polyurethane foam for ballistic protection
[NASA-CASE-ARC-10714-1] c 27 N76-15310
- Vacuum pressure molding technique
[NASA-CASE-LAR-10073-1] c 37 N76-24575
- Glass compositions with a high modulus of elasticity --- nontoxic glass fibers
[NASA-CASE-HQN-10274-1] c 27 N82-29451
- High modulus invert analog glass compositions containing beryllia
[NASA-CASE-HQN-10931-2] c 27 N82-29452
- Containerless high purity pulling process and apparatus for glass fibers
[NASA-CASE-MFS-25905-1] c 74 N83-35825
- Method and technique for installing light-weight, fragile, high-temperature fiber insulation
[NASA-CASE-MS-16934-3] c 24 N84-16262
- GLASSWARE**
Laboratory glassware rack for seismic safety
[NASA-CASE-ARC-11422-1] c 35 N84-20808
- GLAUCOMA**
Intra-ocular pressure normalization technique and equipment
[NASA-CASE-LEW-12955-1] c 52 N80-14684
- GLIDE PATHS**
Integrated lift/drag controller for aircraft
[NASA-CASE-ARC-10456-1] c 05 N75-12930
- GLOBAL POSITIONING SYSTEM**
High dynamic global positioning system receiver
[NASA-CASE-NPO-16171-1-CU] c 04 N84-12151
- GLOBES**
Orbital and entry tracking accessory for globes --- to provide range requirements for reentry vehicles to any landing site
[NASA-CASE-LAR-10626-1] c 19 N74-21015
- GLOVES**
Gas purged dry box glove Patent
[NASA-CASE-XLE-02531] c 05 N71-23080
- Restraining mechanism
[NASA-CASE-MS-13054] c 54 N78-17677
- Heat resistant protective hand covering
[NASA-CASE-MS-20261-1] c 54 N82-32985
- GLOW DISCHARGES**
Deposition of alloy films --- on irregularly shaped metal object
[NASA-CASE-LEW-11262-1] c 27 N74-13270
- Boron trifluoride coatings for thermoplastic materials and method of applying same in glow discharge
[NASA-CASE-ARC-11057-1] c 27 N78-31233
- Electric discharge for treatment of trace contaminants
[NASA-CASE-ARC-10975-1] c 33 N79-15245
- Use of glow discharge in fluidized beds
[NASA-CASE-ARC-11245-1] c 28 N82-18401
- GLUCOSE**
Use of the enzyme hexokinase for the reduction of inherent light levels
[NASA-CASE-XGS-05533] c 04 N69-27487
- GOLD COATINGS**
Thin window, drifted silicon, charged particle detector
[NASA-CASE-XLE-10529] c 14 N69-23191
- Improved chromium electrodes for REDOX cells
[NASA-CASE-LEW-13653-1] c 44 N82-22672
- GONDOLAS**
System for stabilizing torque between a balloon and gondola
[NASA-CASE-GSC-11077-1] c 02 N73-13008
- GRANULAR MATERIALS**
Soil particles separator, collector and viewer Patent
[NASA-CASE-XNP-09770] c 15 N71-20440
- Carbon granule probe microphone for leak detection
[NASA-CASE-NPO-16027-1] c 33 N83-29595
- GRAPHITE**
Bonding graphite with fused silver chloride
[NASA-CASE-XGS-00963] c 15 N69-39735
- Method of preparing graphite reinforced aluminum composite
[NASA-CASE-MFS-21077-1] c 24 N75-28135
- Method of adhering bone to a rigid substrate using a graphite fiber reinforced bone cement
[NASA-CASE-NPO-13764-1] c 27 N78-17215
- Atomic hydrogen storage method and apparatus
[NASA-CASE-LEW-12081-3] c 28 N81-14103
- Mixed polyvalent-monovalent metal coating for carbon-graphite fibers
[NASA-CASE-NPO-14987-1] c 24 N83-33950
- GRAPHITE-EPOXY COMPOSITES**
Partial interlaminar separation system for composites
[NASA-CASE-LAR-12065-1] c 24 N81-14000
- Method and device for detection of a substance --- determining carbon fiber release in fire situations
[NASA-CASE-NPO-14940-1] c 33 N83-31954
- Improved impact tolerant material
[NASA-CASE-LAR-12887-1] c 24 N84-20649
- GRATINGS (SPECTRA)**
Concave grating spectrometer Patent
[NASA-CASE-XGS-01036] c 14 N70-40003
- Diffraction grating configuration for X-ray and ultraviolet focusing
[NASA-CASE-GSC-12357-1] c 74 N80-21140
- GRAVIMETERS**
Gravimeter Patent
[NASA-CASE-XMF-05844] c 14 N71-17587
- GRAVITATION**
Alignment apparatus using a laser having a gravitationally sensitive cavity reflector
[NASA-CASE-ARC-10444-1] c 16 N73-33397
- Anti-gravity device
[NASA-CASE-MFS-22758-1] c 70 N75-26789
- GRAVITATIONAL CONSTANT**
Gravity device Patent
[NASA-CASE-XMF-00424] c 11 N70-38196
- GRAVITATIONAL EFFECTS**
Locomotion and restraint aid Patent
[NASA-CASE-ARC-10153] c 05 N71-28619
- Rotary plant growth accelerating apparatus --- weightlessness
[NASA-CASE-ARC-10722-1] c 51 N75-25503
- Method and apparatus for simulating gravitational forces on a living organism
[NASA-CASE-MS-20202-1] c 54 N84-16803
- GRAVITATIONAL FIELDS**
Difference circuit Patent
[NASA-CASE-XNP-08274] c 10 N71-13537
- Process for preparation of large-particle-size monodisperse latexes
[NASA-CASE-MFS-25000-1] c 25 N81-19242
- GRAVITY GRADIENT SATELLITES**
Stabilization of gravity oriented satellites Patent
[NASA-CASE-XAC-01591] c 31 N71-17729
- Station keeping of a gravity gradient stabilized satellite Patent
[NASA-CASE-XLA-03132] c 31 N71-22969
- GRAVITY GRADIOMETERS**
Gravity device Patent
[NASA-CASE-XMF-00424] c 11 N70-38196
- Gravity gradient attitude control system Patent
[NASA-CASE-GSC-10555-1] c 21 N71-27324
- GRAZING INCIDENCE**
Diffraction grating configuration for X-ray and ultraviolet focusing
[NASA-CASE-GSC-12357-1] c 74 N80-21140
- GRIDS**
Method of making dished ion thruster grids
[NASA-CASE-LEW-11694-1] c 20 N75-18310
- Apparatus for forming dished ion thruster grids
[NASA-CASE-LEW-11694-2] c 37 N76-14461
- Method of constructing dished ion thruster grids to provide hole array spacing compensation
[NASA-CASE-LEW-11876-1] c 20 N78-21276
- Solar cell grid patterns
[NASA-CASE-NPO-13087-2] c 44 N76-31666
- GRINDING (MATERIAL REMOVAL)**
Laser apparatus for removing material from rotating objects Patent
[NASA-CASE-MFS-11279] c 16 N71-20400
- Method for producing dispersion strengthened alloys by converting metal to a halide, comminuting, reducing the metal halide to the metal and sintering
[NASA-CASE-LEW-10450-1] c 15 N72-25448
- Method of forming a sharp edge on an optical device
[NASA-CASE-GSC-12348-1] c 74 N80-24149
- GRINDING MACHINES**
Grinding arrangement for ball nose milling cutters
[NASA-CASE-LAR-10450-1] c 37 N74-27905
- GROOVES**
Energy absorbing device Patent
[NASA-CASE-XMF-10040] c 15 N71-22877
- Spiral groove seal --- for hydraulic rotating shaft
[NASA-CASE-LEW-10326-3] c 37 N74-10474
- Spiral groove seal --- for rotating shaft
[NASA-CASE-XLE-10326-4] c 37 N74-15125
- GROUND EFFECT MACHINES**
Gravity stabilized flying vehicle Patent
[NASA-CASE-MS-12111-1] c 02 N71-11039
- Air cushion lift pad Patent
[NASA-CASE-MFS-14685] c 31 N71-15689
- Open tube guideway for high speed air cushioned vehicles
[NASA-CASE-LAR-10256-1] c 85 N74-34672
- GROUND HANDLING**
Supporting and protecting device Patent
[NASA-CASE-XMF-00580] c 11 N70-35383
- GROUND STATIONS**
Traffic control system and method Patent
[NASA-CASE-GSC-10087-1] c 02 N71-19287
- Method and apparatus for mapping planets
[NASA-CASE-NPO-11001] c 07 N72-21118
- Ultra stable frequency distribution system
[NASA-CASE-NPO-13836-1] c 32 N78-15323
- GROUND SUPPORT EQUIPMENT**
Dynamic Doppler simulator Patent
[NASA-CASE-XMS-05454-1] c 07 N71-12391
- Controlled release device Patent
[NASA-CASE-XKS-03338] c 15 N71-24043
- Apparatus for measuring an aircraft's speed and height
[NASA-CASE-LAR-12275-1] c 35 N79-18296
- GROUND-AIR-GROUND COMMUNICATION**
Retrodirective optical system
[NASA-CASE-XGS-04480] c 16 N69-27491
- Closed loop ranging system Patent
[NASA-CASE-XNP-01501] c 21 N70-41930
- Location identification system
[NASA-CASE-ERC-10324] c 07 N72-25173
- Satellite personal communications system
[NASA-CASE-NPO-14480-1] c 32 N80-20448
- GROUT**
Antenna grout replacement system
[NASA-CASE-NPO-15202-1] c 27 N83-34043
- GUARDS (SHIELDS)**
Safety shield for vacuum/pressure chamber viewing port
[NASA-CASE-GSC-12513-1] c 31 N81-19343
- GUIDANCE (MOTION)**
Gravity stabilized flying vehicle Patent
[NASA-CASE-MS-12111-1] c 02 N71-11039
- Adjustable attitude guide device Patent
[NASA-CASE-XLA-07911] c 15 N71-15571
- Film feed camera having a detent means Patent
[NASA-CASE-LAR-10686] c 14 N71-28935
- Two component bearing Patent
[NASA-CASE-XLA-00013] c 15 N71-29136
- Cable stabilizer for open shaft cable operated elevators
[NASA-CASE-KSC-10513] c 15 N72-25453
- Phase sensitive guidance sensor for wire-following vehicles
[NASA-CASE-NPO-15341-1] c 33 N82-12346
- Thumb actuated two axis controller
[NASA-CASE-ARC-11372-1] c 08 N83-12098
- GUIDANCE SENSORS**
Light sensitive digital aspect sensor Patent
[NASA-CASE-XGS-00359] c 14 N70-34158
- Guidance and maneuver analyzer Patent
[NASA-CASE-XNP-09572] c 14 N71-15621
- Optical machine tool alignment indicator Patent
[NASA-CASE-XAC-09489-1] c 15 N71-26673
- Light sensor
[NASA-CASE-NPO-11311] c 14 N72-25414
- Sun direction detection system
[NASA-CASE-NPO-13722-1] c 74 N77-22951
- Terminal guidance sensor system
[NASA-CASE-NPO-14521-1] c 54 N79-20746
- Focal plane array optical proximity sensor
[NASA-CASE-NPO-15155-1] c 74 N81-22894

Phase sensitive guidance sensor for wire-following vehicles
[NASA-CASE-NPO-15341-1] c 33 N82-12346
Sun sensing guidance system for high altitude aircraft
[NASA-CASE-FRC-11052-1] c 04 N82-23231

GUN LAUNCHERS

Self-obturator, gas operated launcher
[NASA-CASE-NPO-11013] c 11 N72-22247

GUN PROPELLANTS

Nitramine propellants --- gun propellant burning rate
[NASA-CASE-NPO-14103-1] c 28 N78-31255
Hypervelocity gun --- using both electric and chemical energy for projectile propulsion
[NASA-CASE-XLE-03186-1] c 09 N79-21084

GUNN EFFECT

Voltage tunable Gunn-type microwave generator Patent
[NASA-CASE-XER-07894] c 09 N71-18721
Shielded cathode mode bulk effect devices
[NASA-CASE-ERC-10119] c 26 N72-21701
Gunn-type solid state devices
[NASA-CASE-XER-07895] c 26 N72-25679
Magnetically actuated tuning method for Gunn oscillators
[NASA-CASE-NPO-12106] c 09 N73-15235

GUNS

Method of peening and portable peening gun
[NASA-CASE-MFS-23047-1] c 37 N76-18454

GYNECOLOGY

Cervix-to-rectum measuring device in a radiation applicator for use in the treatment of cervical cancer
[NASA-CASE-GSC-12081-2] c 52 N82-22875

GYRATORS

Gyrator type circuit Patent
[NASA-CASE-XAC-10608-1] c 09 N71-12517
Gyrator employing field effect transistors
[NASA-CASE-MFS-21433] c 09 N73-20232
Integrated P-channel MOS gyrator
[NASA-CASE-MFS-22343-1] c 33 N74-34638
Integrable power gyrator --- with Z-matrix design using parallel transistors
[NASA-CASE-MFS-22342-1] c 33 N75-30428

GYROSCOPES

Externally pressurized fluid bearing Patent
[NASA-CASE-XMF-00515] c 15 N70-34664
Air bearing Patent
[NASA-CASE-XMF-00339] c 15 N70-39896
Spacecraft experiment pointing and attitude control system Patent
[NASA-CASE-XLA-05464] c 21 N71-14132
Temperature compensated digital inertial sensor --- circuit for maintaining inertial element of gyroscope or accelerometer at constant position
[NASA-CASE-NPO-13044-1] c 35 N74-15094
All sky pointing attitude control system
[NASA-CASE-ARC-10716-1] c 35 N77-20399

GYROSCOPIC PENDULUMS

Autonomous navigation system --- gyroscopic pendulum for air navigation
[NASA-CASE-ARC-11257-1] c 04 N81-21047

GYROSTABILIZERS

Passive dual spin misalignment compensators --- gyro stabilized device
[NASA-CASE-GSC-11479-1] c 35 N74-28097
Annular momentum control device used for stabilization of space vehicles and the like
[NASA-CASE-LAR-11051-1] c 15 N76-14158
Aircraft body-axis rotation measurement system
[NASA-CASE-FRC-11042-1] c 06 N83-33882

H**HAFFNIUM**

Thermal shock resistant hafnia ceramic material
[NASA-CASE-LAR-10894-1] c 18 N73-14584

HALIDES

Method for producing dispersion strengthened alloys by converting metal to a halide, comminuting, reducing the metal halide to the metal and sintering
[NASA-CASE-LEW-10450-1] c 15 N72-25448
Zinc-halide battery with molten electrolyte
[NASA-CASE-NPO-11961-1] c 44 N76-18643
The 1-(dialkoxyposphonyl)methyl-2,4- and -2,6-dinitro- and diamino benzenes and their derivatives
[NASA-CASE-ARC-11425-1] c 23 N83-28076

HALL EFFECT

Hall current measuring apparatus having a series resistor for temperature compensation Patent
[NASA-CASE-XAC-01662] c 14 N71-23037
Brushless direct current tachometer Patent
[NASA-CASE-MFS-20385] c 09 N71-24904
Hall effect transducer
[NASA-CASE-LAR-10620-1] c 09 N72-25255

Redundant speed control for brushless Hall effect motor
[NASA-CASE-MFS-20207-1] c 09 N73-32107

Hall effect magnetometer
[NASA-CASE-LEW-11632-2] c 35 N75-13213

Magnetic field control --- electromechanical torquing device
[NASA-CASE-MFS-23828-1] c 33 N82-26569

HALL GENERATORS

Hall current measuring apparatus having a series resistor for temperature compensation Patent
[NASA-CASE-XAC-01662] c 14 N71-23037

HALOGENS

Modified polyurethane foams for fuel-fire Patent
[NASA-CASE-ARC-10098-1] c 06 N71-24739

HAMMERS

Apparatus for making diamonds
[NASA-CASE-MFS-20698] c 15 N72-20446

HAND (ANATOMY)

Mechanically actuated triggered hand
[NASA-CASE-MFS-20413] c 15 N72-21463

Therapeutic hand exerciser
[NASA-CASE-LAR-11667-1] c 52 N76-19785

Compact artificial hand
[NASA-CASE-NPO-13906-1] c 54 N79-24652

HANDLING EQUIPMENT

Supporting and protecting device Patent
[NASA-CASE-XMF-00580] c 11 N70-35383

Device for handling printed circuit cards Patent
[NASA-CASE-MFS-20453] c 15 N71-29133

HARDENING (MATERIALS)

Method of heat treating age-hardenable alloys
[NASA-CASE-XNP-01311] c 26 N75-29236

HARMONIC GENERATORS

Wide band doubler and sine wave quadrature generator
[NASA-CASE-NPO-11133] c 10 N72-20223

HARNESSES

Pressure suit tie-down mechanism Patent
[NASA-CASE-XMS-00784] c 05 N71-12335

One hand backpack harness
[NASA-CASE-LAR-10102-1] c 05 N72-23085

Shoulder harness and lap belt restraint system
[NASA-CASE-ARC-10519-2] c 05 N75-25915

HATCHES

Emergency escape system Patent
[NASA-CASE-MSC-12086-1] c 05 N71-12345

HEAD-UP DISPLAYS

Heads up display
[NASA-CASE-LAR-12630-1] c 06 N82-29319

HEART FUNCTION

Ratemeter
[NASA-CASE-MFS-20418] c 14 N73-24473

Ultrasonic biomedical measuring and recording apparatus --- for recording motion of internal organs such as heart valves
[NASA-CASE-ARC-10597-1] c 52 N74-20726

HEART RATE

Digital cardiometer system Patent
[NASA-CASE-XMS-02399] c 05 N71-22896

Ratemeter
[NASA-CASE-MFS-20418] c 14 N73-24473

Digital computing cardiometer
[NASA-CASE-MFS-20284-1] c 52 N74-12778

Pulse transducer with artifact signal attenuator --- heart rate sensors
[NASA-CASE-FRC-11012-1] c 52 N80-23969

Dual physiological rate measurement instrument
[NASA-CASE-MSC-20078-1] c 52 N82-32971

HEAT

Thermionic converter with current augmented by self induced magnetic field Patent
[NASA-CASE-XLE-01903] c 22 N71-23599

HEAT EXCHANGERS

Electro-thermal rocket Patent
[NASA-CASE-XLE-00267] c 28 N70-33356

Space suit heat exchanger Patent
[NASA-CASE-XMS-09571] c 05 N71-19439

Dual solid cryogenics for spacecraft refrigeration Patent
[NASA-CASE-GSC-10188-1] c 23 N71-24725

Shell side liquid metal boiler
[NASA-CASE-NPO-10831] c 33 N72-20915

Helium refrigerator and method for decontaminating the refrigerator
[NASA-CASE-NPO-10634] c 23 N72-25619

Condensate removal device for heat exchanger
[NASA-CASE-MSC-14143-1] c 77 N75-20139

Heat exchanger system and method
[NASA-CASE-LAR-10799-2] c 34 N76-17317

Heat transfer device
[NASA-CASE-MFS-22938-1] c 34 N76-18374

Heat exchanger
[NASA-CASE-MFS-22991-1] c 34 N77-10463

Flat-plate heat pipe
[NASA-CASE-GSC-11998-1] c 34 N77-32413

Combuster --- low nitrogen oxide formation
[NASA-CASE-NPO-13958-1] c 25 N79-11151

Fuel delivery system including heat exchanger means
[NASA-CASE-LEW-12793-1] c 37 N79-11403

Heat exchanger --- rocket combustion chambers and cooling systems
[NASA-CASE-LEW-12252-1] c 34 N79-13288

Heat exchanger and method of making --- bonding rocket chambers with a porous metal matrix
[NASA-CASE-LEW-12441-1] c 34 N79-13289

Thermal energy transformer
[NASA-CASE-LEW-14058-1] c 44 N79-18443

Portable breathing system --- a breathing apparatus using a rebreathing system of heat exchangers for carbon dioxide removal
[NASA-CASE-MSC-16182-1] c 54 N80-10799

Heat exchanger and method of making --- rocket lining
[NASA-CASE-LEW-12441-2] c 34 N80-24573

Heat exchanger and method of making
[NASA-CASE-LEW-12441-3] c 44 N81-24519

Cycling Joule Thomson refrigerator
[NASA-CASE-NPO-15251-1] c 31 N83-31897

HEAT FLUX

Heat flux sensor assembly
[NASA-CASE-NPO-05909-1] c 14 N69-27459

Heat flux measuring system Patent
[NASA-CASE-XFR-03802] c 33 N71-23085

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[NASA-CASE-XLE-04526] c 03 N71-11052

Passively regulated water electrolysis rocket engine Patent
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Decomposition unit Patent
[NASA-CASE-XMS-00583] c 28 N70-38504

HYDROGEN PRODUCTION

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Radar target for remotely sensing hydrological phenomena
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[NASA-CASE-XLE-00699] c 17 N71-24142

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Small rocket engine Patent
[NASA-CASE-XLE-00685] c 28 N70-41992

Method of igniting solid propellants Patent
[NASA-CASE-XLE-01988] c 27 N71-15634

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[NASA-CASE-LAR-12264-1] c 15 N78-32168

HYPERSONIC FLOW

Hypersonic test facility Patent
[NASA-CASE-XLA-05378] c 11 N71-21475

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Reentry vehicle leading edge Patent
[NASA-CASE-XLA-00165] c 31 N70-33242

Landing arrangement for aerospace vehicle Patent
[NASA-CASE-XLA-00805] c 31 N70-38010

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High speed flight vehicle control Patent
[NASA-CASE-XLA-08967] c 02 N71-27088

Apparatus and method for generating large mass flow of high temperature air at hypersonic speeds
[NASA-CASE-LAR-10578-1] c 12 N73-25262

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[NASA-CASE-LAR-10612-1] c 12 N73-28144

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Hyperthermia heating apparatus --- cancer therapy
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[NASA-CASE-XGS-06628] c 24 N71-16213

Hypervelocity gun Patent
[NASA-CASE-XAC-05902] c 11 N71-18578

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[NASA-CASE-MSC-13789-1] c 11 N73-32152

Hypervelocity gun --- using both electric and chemical energy for projectile propulsion
[NASA-CASE-XLE-03186-1] c 09 N79-21084

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[NASA-CASE-LAR-10913] c 14 N72-16282

Multiple image storing system for high speed projectile holography
[NASA-CASE-MFS-20596] c 14 N72-17324

HYPERVELOCITY WIND TUNNELS

Hypersonic test facility Patent
[NASA-CASE-XLA-00378] c 11 N71-15925

Hypersonic test facility Patent
[NASA-CASE-XLA-05378] c 11 N71-21475

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[NASA-CASE-XNP-09452] c 15 N69-27504

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Solid propellant rocket motor
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Remote fire stack igniter --- with solenoid-controlled valve
[NASA-CASE-MFS-21675-1] c 25 N74-33378
Molded composite pyrogen igniter for rocket motors --- solid propellant ignition
[NASA-CASE-LAR-12018-1] c 20 N78-24275
Plasma igniter for internal combustion engine
[NASA-CASE-NPO-13828-1] c 37 N79-11405

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Magnetically controlled plasma accelerator Patent
[NASA-CASE-XLA-00327] c 25 N71-29184

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High voltage pulse generator Patent
[NASA-CASE-MSC-12178-1] c 09 N71-13518

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Apparatus for igniting solid propellants Patent
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Ignition system for monopropellant combustion devices Patent
[NASA-CASE-XNP-00249] c 28 N70-38249
Rocket motor system Patent
[NASA-CASE-XLE-00323] c 28 N70-38505
Ignition means for monopropellant Patent
[NASA-CASE-XNP-00876] c 28 N70-41311
Sustained arc ignition system
[NASA-CASE-LEW-12444-1] c 33 N77-28385

IGNITION TEMPERATURE

Autoignition test cell Patent
[NASA-CASE-KSC-10198] c 11 N71-28629

ILLUMINATORS

Image magnification adapter for cameras Patent
[NASA-CASE-XMF-03844-1] c 14 N71-26474
Illumination system including a virtual light source Patent
[NASA-CASE-HQN-10781] c 23 N71-30292
Focal plane array optical proximity sensor
[NASA-CASE-NPO-15155-1] c 74 N81-22894

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Video signal enhancement system with dynamic range compression and modulation index expansion Patent
[NASA-CASE-NPO-10343] c 07 N71-27341
Method and apparatus for producing an image from a transparent object
[NASA-CASE-GSC-11989-1] c 74 N77-28932

IMAGE CONVERTERS

Deep trap, laser activated image converting system
[NASA-CASE-NPO-13131-1] c 36 N75-19652
Resistive anode image converter
[NASA-CASE-HQN-10876-1] c 33 N76-27473
Wedge immersed thermistor bolometers
[NASA-CASE-XGS-01245-1] c 35 N79-33449
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[NASA-CASE-LAR-12513-1] c 44 N82-32841

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[NASA-CASE-ERC-10151] c 16 N71-29131
Automatic focus control for facsimile cameras
[NASA-CASE-LAR-11213-1] c 35 N75-15014
Azimuth correlator for real-time synthetic aperture radar image processing
[NASA-CASE-NPO-14019-1] c 32 N79-14268
An electro-optical Doppler tracker means and method for optical correlation of synthetic aperture radar
[NASA-CASE-NPO-14998-1] c 33 N81-15194
Servomechanism for Doppler shift compensation in optical correlator for synthetic aperture radar
[NASA-CASE-NPO-14998-1] c 32 N83-18975
Optical stereo video signal processor --- line of sight tracking
[NASA-CASE-MFS-25752-1] c 74 N83-21950

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Apparatus for calibrating an image dissector tube
[NASA-CASE-MFS-22208-1] c 33 N75-26244
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[NASA-CASE-ERC-10552] c 09 N71-12539
Physical correction filter for improving the optical quality of an image
[NASA-CASE-HQN-10542-1] c 74 N75-25706

Method of obtaining intensified image from developed photographic films and plates
[NASA-CASE-MFS-23461-1] c 35 N79-10389

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Motion picture camera for optical pyrometry Patent
[NASA-CASE-XLA-00062] c 14 N70-33254
Compact spectroradiometer
[NASA-CASE-HQN-10683] c 14 N71-34389
Physical correction filter for improving the optical quality of an image
[NASA-CASE-HQN-10542-1] c 74 N75-25706

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Magnifying image intensifier
[NASA-CASE-GSC-12010-1] c 74 N78-18905
Method of obtaining intensified image from developed photographic films and plates
[NASA-CASE-MFS-23461-1] c 35 N79-10389

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[NASA-CASE-NPO-14019-1] c 32 N79-14268
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Clutter free synthetic aperture radar correlator
[NASA-CASE-NPO-14035-1] c 32 N83-19968
The 3-dimensional and tomographic imaging device for X-ray and gamma-ray emitting objects
[NASA-CASE-GSC-12851-1] c 35 N83-20083

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Rhomboid prism pair for rotating the plane of parallel light beams
[NASA-CASE-ARC-11311-1] c 74 N83-13978

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Image tube --- deriving electron beam replica of image
[NASA-CASE-GSC-11602-1] c 33 N74-21850
System for producing chroma signals
[NASA-CASE-MSC-14683-1] c 74 N77-18893

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Image magnification adapter for cameras Patent
[NASA-CASE-XMF-03844-1] c 14 N71-26474
Stereoscopic television system and apparatus
[NASA-CASE-ARC-10160-1] c 23 N72-27728

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Optical mirror apparatus Patent
[NASA-CASE-ERC-10001] c 23 N71-24868
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Phototransistor imaging system
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[NASA-CASE-MSC-12404-1] c 23 N73-13661
Multiple pass reimaging optical system
[NASA-CASE-ARC-10194-1] c 23 N73-20741
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[NASA-CASE-GSC-11487-1] c 14 N73-30393
Data storage, image tube type
[NASA-CASE-MSC-14053-1] c 60 N74-12888
Optical instruments
[NASA-CASE-MSC-14096-1] c 74 N74-15095
Electron microscope aperture system
[NASA-CASE-ARC-10448-3] c 35 N77-14408
Method and apparatus for producing an image from a transparent object
[NASA-CASE-GSC-11989-1] c 74 N77-28932
Full color hybrid display for aircraft simulators --- landing aids
[NASA-CASE-ARC-10903-1] c 09 N78-18083
Chromatically corrected virtual image display --- lens design for flight simulators
[NASA-CASE-LAR-12251-1] c 74 N79-14892
Multispectral imaging and analysis system --- using charge coupled devices and linear arrays
[NASA-CASE-NPO-13691-1] c 43 N79-17288
System and method for obtaining wide screen Schlieren photographs
[NASA-CASE-NPO-14174-1] c 74 N79-20856
Low intensity X-ray and gamma-ray imaging device --- fiber optics
[NASA-CASE-GSC-12263-1] c 74 N79-20857
Diffraction grating configuration for X-ray and ultraviolet focusing
[NASA-CASE-GSC-12357-1] c 74 N80-21140
Multispectral scanner optical system
[NASA-CASE-MSC-18255-1] c 74 N80-33210
System for forming a quadrified image comprising angularly related fields of view of a three dimensional object
[NASA-CASE-NPO-14219-1] c 74 N81-17886
Time delay and integration detectors using charge transfer devices
[NASA-CASE-GSC-12324-1] c 33 N81-33403

Image readout device with electronically variable spatial resolution
[NASA-CASE-LAR-12633-1] c 33 N82-24416

Method and apparatus for Delta K synthetic aperture radar measurement of ocean current
[NASA-CASE-NPO-15704-1] c 32 N82-28502
Low intensity X-ray and gamma-ray spectrometer
[NASA-CASE-GSC-12587-1] c 35 N82-32659
Optical system
[NASA-CASE-NPO-15801-1] c 74 N83-25541
X-ray imaging mirror system and method of producing the same
[NASA-CASE-NPO-15828-1] c 74 N83-30222
Multibeam single frequency synthetic aperture radar processor for imaging separate range swaths
[NASA-CASE-NPO-14525-2] c 32 N83-31918
High speed multi focal plane optical system
[NASA-CASE-GSC-12683-1] c 74 N83-36898
Real-time 3-D X-ray and gamma-ray viewer
[NASA-CASE-GSC-12640-1] c 74 N84-11920

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Imidazopyrrolone/imide copolymers Patent
[NASA-CASE-XLA-08802] c 06 N71-11238
Molding process for imidazopyrrolone polymers
[NASA-CASE-LAR-10547-1] c 31 N74-13177
Phosphorus-containing imide resins
[NASA-CASE-ARC-11368-1] c 27 N83-31854
Process for preparing phthalocyanine polymers
[NASA-CASE-ARC-11511-1] c 23 N84-16259

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Synthesis of polymeric schiff bases by schiff-base exchange reactions Patent
[NASA-CASE-XMF-08651] c 06 N71-11236
Direct synthesis of polymeric schiff bases from two amines and two aldehydes Patent
[NASA-CASE-XMF-08655] c 06 N71-11239
Synthesis of polymeric schiff bases by reaction of acetals and amine compounds Patent
[NASA-CASE-XMF-08652] c 06 N71-11243
Aromatic diamine-aromatic dialdehyde high molecular weight Schiff base polymers prepared in a monofunctional Schiff base Patent
[NASA-CASE-XMF-03074] c 06 N71-24740

IMMOBILIZATION

Stretcher Patent
[NASA-CASE-XMF-06589] c 05 N71-23159
Absolute focus lock for microscopes
[NASA-CASE-LAR-10184] c 14 N72-22445
Spine immobilization apparatus
[NASA-CASE-ARC-11167-1] c 52 N81-25662

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Impact energy absorbing system utilizing fractureable material
[NASA-CASE-NPO-10671] c 15 N72-20443
Cosmic dust or other similar outer space particles impact location detector
[NASA-CASE-GSC-11291-1] c 25 N72-33696
Impact position detector for outer space particles
[NASA-CASE-GSC-11829-1] c 35 N75-27331
Insulation bonding test system
[NASA-CASE-MFS-25662-1] c 27 N83-19903

IMPACT ACCELERATION

Suspended mass impact damper Patent
[NASA-CASE-LAR-10193-1] c 15 N71-27146

IMPACT DAMAGE

Micrometeoroid penetration measuring device Patent
[NASA-CASE-XLA-00941] c 14 N71-23240

IMPACT LOADS

Force transducer Patent
[NASA-CASE-XAC-01101] c 14 N70-41957
Impact testing machine Patent
[NASA-CASE-XNP-04817] c 14 N71-23225

IMPACT RESISTANCE

Electric storage battery
[NASA-CASE-NPO-11021] c 03 N72-20032
Hybrid composite laminate structures
[NASA-CASE-LEW-12118-1] c 24 N77-27188

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High impact pressure regulator Patent
[NASA-CASE-NPO-10175] c 14 N71-18625

IMPACT TESTING MACHINES

Lunar penetrometer Patent
[NASA-CASE-XLA-00934] c 14 N71-22765
Impact testing machine Patent
[NASA-CASE-XNP-04817] c 14 N71-23225

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High impact antenna Patent
[NASA-CASE-NPO-10231] c 07 N71-26101
Vehicular impact absorption system
[NASA-CASE-NPO-14014-1] c 37 N79-10420
Improved impact tolerant material
[NASA-CASE-LAR-12887-1] c 24 N84-20649

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Reactanceless bandpass amplifier
[NASA-CASE-GSC-12788-1] c 33 N83-12333

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- Signal multiplexer
[NASA-CASE-XGS-01110] c 07 N69-24334
Reflectometer for receiver input impedance match measurement Patent
[NASA-CASE-XNP-10843] c 07 N71-11267
Radio frequency coaxial high pass filter Patent
[NASA-CASE-XGS-01418] c 09 N71-23573
Triaxial antenna Patent
[NASA-CASE-XGS-02290] c 07 N71-28809

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- High impedance measuring apparatus Patent
[NASA-CASE-XMS-08589-1] c 09 N71-20569
Apparatus for measuring semiconductor device resistance
[NASA-CASE-NPO-14424-1] c 33 N80-32650

IMPLANTATION

- Telemeter adaptable for implanting in an animal Patent
[NASA-CASE-XAC-05706] c 05 N71-12342
Magnetic electrical connectors for biomedical percutaneous implants
[NASA-CASE-KSC-11030-1] c 52 N77-25772
Prosthetic occlusive device for an internal passageway
[NASA-CASE-MFS-25740-1] c 52 N84-11744

IMPLANTED ELECTRODES (BIOLOGY)

- Pocket ECG electrode
[NASA-CASE-ARC-11258-1] c 52 N80-33081
Subcutaneous electrode structure
[NASA-CASE-ARC-11117-1] c 52 N81-14612
Implantable electrical device
[NASA-CASE-GSC-12560-1] c 52 N82-29863

IMPLOSIONS

- Hypervelocity gun Patent
[NASA-CASE-XAC-05902] c 11 N71-18578

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- Composite lamination method
[NASA-CASE-LAR-12019-1] c 24 N78-17150
Insoluble polyelectrolyte and ion-exchange hollow fiber impregnated therewith
[NASA-CASE-NPO-13530-1] c 25 N81-17187
High temperature silicon carbide impregnated insulating fabrics
[NASA-CASE-MSC-18832-1] c 27 N83-18908

IMPULSE GENERATORS

- Percutaneous connector device
[NASA-CASE-KSC-10849-1] c 52 N77-14738

IMPURITIES

- Method of making impurity-type semiconductor electrical contacts Patent
[NASA-CASE-XMF-01016] c 26 N71-17818
Method of mitigating titanium impurities effects in p-type silicon material for solar cells
[NASA-CASE-NPO-14635-1] c 44 N80-24741
Electromigration process for the purification of molten silicon during crystal growth
[NASA-CASE-NPO-13831-1] c 76 N82-30105

IN-FLIGHT MONITORING

- System for use in conducting wake investigation for a wing in flight --- differential pressure measurements for drag investigations
[NASA-CASE-FRC-11024-1] c 02 N80-28300

INCIDENCE

- Method of and means for testing a glancing-incidence mirror system of an X-ray telescope
[NASA-CASE-MFS-22409-2] c 74 N78-15880

INCIDENT RADIATION

- Solar cell assembly --- for use under high intensity illumination
[NASA-CASE-LEW-11549-1] c 44 N77-19571
Correlation spectrometer having high resolution and multiplexing capability
[NASA-CASE-NPO-15558-1] c 35 N82-26636
X-ray imaging mirror system and method of producing the same
[NASA-CASE-NPO-15828-1] c 74 N83-30222

INCLINATION

- Hingeless helicopter rotor with improved stability
[NASA-CASE-ARC-10807-1] c 05 N77-17029

INCOHERENT SCATTERING

- Rapidly pulsed, high intensity, incoherent light source
[NASA-CASE-XLE-2529-3] c 33 N74-20859

INDICATING INSTRUMENTS

- Missile stage separation indicator and stage initiator Patent
[NASA-CASE-XLA-00791] c 03 N70-39930
Inductive liquid level detection system Patent
[NASA-CASE-XLE-01609] c 14 N71-10500
Apparatus for the determination of the existence or non-existence of a bonding between two members Patent
[NASA-CASE-MFS-13686] c 15 N71-18132

Hydrogen fire detection system with logic circuit to analyze the spectrum of temporal variations of the optical spectrum

- [NASA-CASE-MFS-13130] c 10 N72-17173
Fatigue failure load indicator
[NASA-CASE-LAR-12027-1] c 39 N79-22537
System for providing an integrated display of instantaneous information relative to aircraft attitude, heading, altitude, and horizontal situation
[NASA-CASE-FRC-11005-1] c 06 N82-16075
Film advance indicator
[NASA-CASE-LAR-12474-1] c 35 N82-26628

INDIUM ALLOYS

- Method for attaching a fused-quartz mirror to a conductive metal substrate
[NASA-CASE-MFS-23405-1] c 26 N77-29260
Solar cell collector
[NASA-CASE-LEW-12552-1] c 44 N78-25527

INDUCTANCE

- Current dependent filter inductance
[NASA-CASE-ERC-10139] c 09 N72-17154
Inductance device with vacuum insulation
[NASA-CASE-LEW-10330-1] c 09 N72-27226
Direct reading inductance meter
[NASA-CASE-NPO-13792-1] c 35 N77-32455

INDUCTION HEATING

- Induction furnace with perforated tungsten foil shielding Patent
[NASA-CASE-XLE-04026] c 14 N71-23267
Apparatus for use in the production of ribbon-shaped crystals from a silicon melt
[NASA-CASE-NPO-14297-1] c 33 N81-19389
Induction heating gun
[NASA-CASE-LAR-12540-2] c 27 N82-24345
One-step dual purpose joining technique
[NASA-CASE-LAR-12595-1] c 33 N82-26571
Induction heating gun
[NASA-CASE-LAR-13181-1] c 33 N83-29591

INDUCTION MOTORS

- Induction motor control system with voltage controlled oscillator circuit
[NASA-CASE-MFS-21465-1] c 10 N73-32145
Variable frequency inverter for ac induction motors with torque, speed and braking control
[NASA-CASE-MFS-22088-1] c 33 N75-15874
Power factor control system for AC induction motors
[NASA-CASE-MFS-23280-1] c 33 N78-10376
Three phase power factor controller
[NASA-CASE-MFS-25535-1] c 33 N81-12330
Power factor control system for ac induction motors
[NASA-CASE-MFS-23988-1] c 33 N81-27395
Motor power factor controller with a reduced voltage starter
[NASA-CASE-MFS-25586-1] c 33 N82-11360
Magnetic field control --- electromechanical torquing device
[NASA-CASE-MFS-23828-1] c 33 N82-26569
Solar powered actuator with continuously variable auxiliary power control
[NASA-CASE-MFS-25637-1] c 44 N82-26780
Three phase power factor controller with induced EMF sensing
[NASA-CASE-MFS-25852-1] c 33 N83-17803
Coupling an induction motor type generator to a-c power lines
[NASA-CASE-MFS-25302-2] c 33 N83-24768
Electrical power generating system
[NASA-CASE-MFS-25302-1] c 33 N83-28319
Triac failure detector
[NASA-CASE-MFS-25607-1] c 33 N83-34190
Control system for an induction motor with energy recovery
[NASA-CASE-MFS-25477-1] c 33 N84-14424

INDUCTORS

- Inductive liquid level detection system Patent
[NASA-CASE-XLE-01609] c 14 N71-10500
Vacuum deposition apparatus Patent
[NASA-CASE-XMF-01667] c 15 N71-17647
Constant frequency output two stage induction machine systems Patent
[NASA-CASE-ERC-10065] c 09 N71-27364
Elimination of current spikes in buck power converters
[NASA-CASE-NPO-14505-1] c 33 N81-19393

INDUSTRIAL PLANTS

- Process for making diamonds
[NASA-CASE-MFS-20698-2] c 15 N73-19457

INDUSTRIAL WASTES

- Process of forming catalytic surfaces for wet oxidation reactions
[NASA-CASE-MSC-14831-1] c 25 N78-10225
Process for purification of waste water produced by a Kraft process pulp and paper mill
[NASA-CASE-NPO-13847-2] c 85 N79-17747

INERT ATMOSPHERE

- Method for retarding dye fading during archival storage of developed color photographic film --- inert atmosphere
[NASA-CASE-MFS-23250-1] c 35 N82-11432

INERTIA

- Bidirectional step torque filter with zero backlash characteristic Patent
[NASA-CASE-XGS-04227] c 15 N71-21744
Polyvinyl alcohol battery separator containing inert filler
[NASA-CASE-LEW-13556-2] c 44 N83-29805

INERTIAL CONFINEMENT FUSION

- Method and apparatus for producing gas-filled hollow spheres --- target pellets for inertial confinement fusion
[NASA-CASE-NPO-14596-3] c 31 N83-31896
Contactless pellet fabrication
[NASA-CASE-NPO-15592-1] c 71 N84-16940

INERTIAL GUIDANCE

- Hermetic sealed vibration damper Patent
[NASA-CASE-MSC-10859] c 15 N71-26243

INERTIAL NAVIGATION

- Autonomous navigation system --- gyroscopic pendulum for air navigation
[NASA-CASE-ARC-11257-1] c 04 N81-21047

INERTIAL PLATFORMS

- Clamping assembly for inertial components Patent
[NASA-CASE-XMS-02184] c 15 N71-20813
Azimuth laying system Patent
[NASA-CASE-XMF-01669] c 21 N71-23289
Temperature compensated digital inertial sensor --- circuit for maintaining inertial element of gyroscope or accelerometer at constant position
[NASA-CASE-NPO-13044-1] c 35 N74-15094
Attitude control system
[NASA-CASE-MFS-22787-1] c 15 N77-10113
Rim inertial measuring system
[NASA-CASE-LAR-12052-1] c 18 N81-29152

INERTIAL REFERENCE SYSTEMS

- Attitude control system Patent
[NASA-CASE-XGS-04393] c 21 N71-14159
Inertial reference apparatus Patent
[NASA-CASE-XAC-03107] c 23 N71-16098

INFLATABLE SPACECRAFT

- Thermal control of space vehicles Patent
[NASA-CASE-XLA-01291] c 33 N70-36617
Passive communication satellite Patent
[NASA-CASE-XLA-00210] c 30 N70-40309
Rotating mandrel for assembly of inflatable devices Patent
[NASA-CASE-XLA-04143] c 15 N71-17687
Method of making an inflatable panel Patent
[NASA-CASE-XLA-03497] c 15 N71-23052
Orbital escape device Patent
[NASA-CASE-XMS-06162] c 31 N71-28851

INFLATABLE STRUCTURES

- Aeroflexible structures
[NASA-CASE-XLA-06095] c 01 N69-39981
Life raft Patent
[NASA-CASE-XMS-00863] c 05 N70-34857
Life preserver Patent
[NASA-CASE-XMS-00864] c 05 N70-36493
Inflatable honeycomb Patent
[NASA-CASE-XLA-00204] c 32 N70-36536
Inflatable radar reflector unit Patent
[NASA-CASE-XMS-00893] c 07 N70-40063
Excessive temperature warning system Patent
[NASA-CASE-XLA-01926] c 14 N71-15620
Inflation system for balloon type satellites Patent
[NASA-CASE-XGS-03351] c 31 N71-16081
Aerodynamic protection for space flight vehicles Patent
[NASA-CASE-XNP-02507] c 31 N71-17879
Self supporting space vehicle Patent
[NASA-CASE-XLA-00117] c 31 N71-17680
Conforming polisher for aspheric surface of revolution Patent
[NASA-CASE-XGS-02884] c 15 N71-22705
Method of making inflatable honeycomb Patent
[NASA-CASE-XLA-03492] c 15 N71-22713
Collapsible antenna boom and transmission line Patent
[NASA-CASE-MFS-20068] c 07 N71-27191
Inflatable tether Patent
[NASA-CASE-XMS-10993] c 15 N71-28936
Inflatable transpiration cooled nozzle
[NASA-CASE-MFS-20619] c 28 N72-11708
Modification of one man life raft
[NASA-CASE-LAR-10241-1] c 54 N74-14845
Emergency space-suit helmet
[NASA-CASE-MSC-10954-1] c 54 N78-18761
Pressure control valve --- inflating flexible bladders
[NASA-CASE-ARC-11251-1] c 37 N81-17433
Pneumatic inflatable end effector
[NASA-CASE-MFS-23696-1] c 54 N81-26718

Procedure for internally mounting strain gauges
[NASA-CASE-GSC-12824-1] c 35 N83-13424

Inflatable device for installing strain gage bridges
[NASA-CASE-FRC-11068-1] c 35 N84-12443

INFORMATION RETRIEVAL
Multiple hologram recording and readout system
Patent
[NASA-CASE-ERC-10151] c 16 N71-29131

INFRARED DETECTORS
Temperature sensitive capacitor device
[NASA-CASE-XNP-09750] c 14 N69-39937

Sight switch using an infrared source and sensor
Patent
[NASA-CASE-XMF-03934] c 09 N71-22985

Infrared detectors
[NASA-CASE-LAR-10728-1] c 14 N73-12445

Doped Josephson tunneling junction for use in a sensitive IR detector
[NASA-CASE-NPO-13348-1] c 33 N75-31332

Multispectral scanner optical system
[NASA-CASE-MSC-18255-1] c 74 N80-33210

Integrated photo-responsive metal oxide semiconductor circuit
[NASA-CASE-GSC-12782-1] c 33 N83-13360

Broadband optical radiation detector
[US-PATENT-4,262,198] c 74 N83-19597

INFRARED INSTRUMENTS
Infrared scanner Patent
[NASA-CASE-XLA-00120] c 21 N70-33181

INFRARED INTERFEROMETERS
Over-under double-pass interferometer
[NASA-CASE-NPO-13999-1] c 35 N78-18395

INFRARED LASERS
Monitoring atmospheric pollutants with a heterodyne radiometer transmitter-receiver
[NASA-CASE-NPO-11919-1] c 35 N74-11284

Gregorian all-reflective optical system
[NASA-CASE-GSC-12058-1] c 74 N77-26942

Thermal compensator for closed-cycle helium refrigerator --- assuring constant temperature for an infrared laser diode
[NASA-CASE-GSC-12168-1] c 31 N79-17029

INFRARED RADIATION
High-speed infrared furnace
[NASA-CASE-XLE-10466] c 17 N69-25147

High field CdS detector for infrared radiation
[NASA-CASE-LAR-11027-1] c 35 N74-18088

INFRARED REFLECTION
Electromagnetic radiation energy arrangement --- coatings for solar energy absorption and infrared reflection
[NASA-CASE-WOO-00428-1] c 32 N79-19186

INFRARED SCANNERS
Infrared scanner Patent
[NASA-CASE-XLA-00120] c 21 N70-33181

Infrared horizon locator
[NASA-CASE-LAR-10726-1] c 14 N73-20475

INFRARED SPECTRA
Diatomic infrared gasdynamic laser --- for producing different wavelengths
[NASA-CASE-ARC-10370-1] c 36 N75-31426

INFRARED SPECTROMETERS
Telespectrograph Patent
[NASA-CASE-XLA-03273] c 14 N71-18699

Cooled echelle grating spectrometer --- for space telescope applications
[NASA-CASE-NPO-14372-1] c 35 N80-26635

INFRARED SPECTROSCOPY
Apparatus for providing a servo drive signal in a high-speed stepping interferometer
[NASA-CASE-NPO-13569-2] c 35 N79-14348

INFRASONIC FREQUENCIES
Resonant infrasonic gauging apparatus
[NASA-CASE-MSC-11847-1] c 14 N72-11363

INGOTS
Improved ingot slicing machine
[NASA-CASE-NPO-15483-1] c 37 N82-28642

INHIBITORS
Inhibited solid propellant composition containing beryllium hydride
[NASA-CASE-NPO-10866-1] c 28 N79-14228

INITIATORS (EXPLOSIVES)
Missile stage separation indicator and stage initiator Patent
[NASA-CASE-XLA-00791] c 03 N70-39930

Safe-arm initiator Patent
[NASA-CASE-LAR-10372] c 09 N71-18599

Electroexplosive device
[NASA-CASE-NPO-13858-1] c 28 N79-11231

INJECTION
Thickness measuring and injection device Patent
[NASA-CASE-MFS-20261] c 14 N71-27005

High performance channel injection sealant invention abstract
[NASA-CASE-ARC-14408-1] c 27 N82-33523

INJECTORS

Rocket propellant injector Patent
[NASA-CASE-XLE-00103] c 28 N70-33241

Rocket engine injector Patent
[NASA-CASE-XLE-00111] c 28 N70-38199

Injector for bipropellant rocket engines Patent
[NASA-CASE-XMF-00148] c 28 N70-38710

Dust particle injector for hypervelocity accelerators Patent
[NASA-CASE-XGS-06628] c 24 N71-16213

Control valve and co-axial variable injector Patent
[NASA-CASE-XNP-09702] c 15 N71-17654

Rocket engine injector Patent
[NASA-CASE-XLE-03157] c 28 N71-24736

Bipropellant injector
[NASA-CASE-XNP-09461] c 28 N72-23809

Coaxial injector for reaction motors
[NASA-CASE-NPO-11095] c 15 N72-25455

Injector for use in high voltage isolators for liquid feed lines
[NASA-CASE-NPO-11377] c 15 N73-27406

Rocket injector head
[NASA-CASE-XMF-04592-1] c 20 N79-21125

INLET FLOW
High pressure four-way valve Patent
[NASA-CASE-XNP-00214] c 15 N70-36908

Gas turbine combustor Patent
[NASA-CASE-LEW-10286-1] c 28 N71-28915

Airflow control system for supersonic inlets
[NASA-CASE-LEW-11188-1] c 02 N74-20646

Variably positioned guide vanes for aerodynamic choking
[NASA-CASE-LAR-10642-1] c 07 N74-31270

Shock position sensor for supersonic inlets --- measuring pressure in the throat of a supersonic inlet
[NASA-CASE-LEW-11915-1] c 35 N76-14431

Method for fabricating a mass spectrometer inlet leak
[NASA-CASE-GSC-12077-1] c 35 N77-24455

Gas turbine engine with recirculating bleed
[NASA-CASE-LEW-12452-1] c 07 N78-25089

Self stabilizing sonic inlet
[NASA-CASE-LEW-11890-1] c 05 N79-24976

INLET NOZZLES
Rocket injector head
[NASA-CASE-XMF-04592-1] c 20 N79-21125

INLET PRESSURE
Fluid jet amplifier
[NASA-CASE-XLE-03512] c 12 N69-21466

Shock position sensor for supersonic inlets --- measuring pressure in the throat of a supersonic inlet
[NASA-CASE-LEW-11915-1] c 35 N76-14431

INOCULATION
Automatic inoculating apparatus --- includes movable carriage, drive motor, and swabbing motor
[NASA-CASE-LAR-11074-1] c 51 N75-13502

INORGANIC COATINGS
Diffuse reflective coating
[NASA-CASE-GSC-11214-1] c 06 N73-13128

Boron trifluoride coatings for thermoplastic materials and method of applying same in glow discharge
[NASA-CASE-ARC-11057-1] c 27 N78-31233

INORGANIC COMPOUNDS
Method of making membranes
[NASA-CASE-XNP-04264] c 03 N69-21337

Inorganic solid film lubricants Patent
[NASA-CASE-XMF-03988] c 15 N71-21403

Modified polyurethane foams for fuel-fire Patent
[NASA-CASE-ARC-10098-1] c 06 N71-24739

Inorganic thermal control coatings
[NASA-CASE-MFS-20011] c 18 N72-22566

Inorganic-organic separators for alkaline batteries
[NASA-CASE-LEW-12649-1] c 44 N78-25530

Method for the preparation of inorganic single crystal and polycrystalline electronic materials
[NASA-CASE-XLE-02545-1] c 76 N79-21910

INORGANIC PEROXIDES
Process for preparing higher oxides of the alkali and alkaline earth metals
[NASA-CASE-ARC-10992-1] c 26 N78-32229

Process for the preparation of calcium superoxide
[NASA-CASE-ARC-11053-1] c 25 N79-10162

INPUT
Remodulator filter Patent
[NASA-CASE-NPO-10198] c 09 N71-24806

Active RC networks
[NASA-CASE-ARC-10020] c 10 N72-17172

High-speed multiplexing of keyboard data inputs
[NASA-CASE-NPO-14554-1] c 60 N81-27814

INPUT/OUTPUT ROUTINES
Analog to digital converter
[NASA-CASE-NPO-13385-1] c 33 N76-18345

INSERTION
Apparatus and method of inserting a microelectrode in body tissue or the like using vibration means
[NASA-CASE-NPO-13910-1] c 52 N79-27836

INSERTION LOSS

Insertion loss measuring apparatus having transformer means connected across a pair of bolometers Patent
[NASA-CASE-XNP-01193] c 10 N71-16057

INSPECTION
Automatic visual inspection system for microelectronics
[NASA-CASE-NPO-13282] c 38 N78-17396

Method for refurbishing and processing parachutes
[NASA-CASE-KSC-11042-1] c 09 N82-29330

Apparatus and method for inspecting a bearing ball --- eddy current inspection technique
[NASA-CASE-MFS-25833-1] c 35 N83-21316

INSTALLING
Device for installing rocket engines
[NASA-CASE-MFS-19220-1] c 20 N76-22296

Thermocouple installation
[NASA-CASE-NPO-13540-1] c 35 N77-14409

A method and technique for installing light-weight fragile, high-temperature fiber insulation
[NASA-CASE-MSC-18934-3] c 24 N82-26387

Inflatable device for installing strain gage bridges
[NASA-CASE-FRC-11068-1] c 35 N84-12443

INSTRUMENT ERRORS
Radiation direction detector including means for compensating for photocell aging Patent
[NASA-CASE-XLA-00183] c 14 N70-40239

INSTRUMENT FLIGHT RULES
Controlled visibility device for an aircraft Patent
[NASA-CASE-XFR-04147] c 11 N71-10748

Inflight IFR procedures simulator
[NASA-CASE-KSC-11218-1] c 09 N82-29331

INSTRUMENT ORIENTATION
Plurality of photosensitive cells on a pyramidal base for planetary trackers
[NASA-CASE-XNP-04180] c 07 N69-39736

Azimuth laying system Patent
[NASA-CASE-XMF-01669] c 21 N71-23289

Optical machine tool alignment indicator Patent
[NASA-CASE-XAC-09489-1] c 15 N71-26673

Solar energy powered heliostats
[NASA-CASE-GSC-10945-1] c 21 N72-31637

INSTRUMENT PACKAGES
Apparatus for ejection of an instrument cover
[NASA-CASE-XMF-04132] c 15 N69-27502

Method and apparatus for shock protection Patent
[NASA-CASE-XLA-00482] c 15 N70-36409

Foam generator Patent
[NASA-CASE-XLA-00838] c 03 N70-36778

Velocity package Patent
[NASA-CASE-XLA-01339] c 31 N71-15692

Processing for producing a sterilized instrument Patent
[NASA-CASE-XNP-09763] c 14 N71-20461

Thermal control canister
[NASA-CASE-GSC-12253-1] c 34 N79-31523

INSTRUMENTS
Radio frequency shielded enclosure Patent
[NASA-CASE-XMF-09422] c 07 N71-19436

Linear differential pressure sensor Patent
[NASA-CASE-XMF-01974] c 14 N71-22752

Precision thrust gage Patent
[NASA-CASE-XGS-02319] c 14 N71-22965

Self-calibrating displacement transducer Patent
[NASA-CASE-XLA-00781] c 09 N71-22999

Sensing probe
[NASA-CASE-LEW-10281-1] c 14 N72-17327

Scientific experiment flexible mount
[NASA-CASE-MSC-12372-1] c 31 N72-25842

Magnetic suspension and pointing system
[NASA-CASE-LAR-11889-2] c 37 N78-27424

Rotary leveling base platform
[NASA-CASE-ARC-10981-1] c 37 N78-27425

INSULATED STRUCTURES
Piping arrangement through a double chamber structure
[NASA-CASE-XNP-08882] c 15 N69-39935

INSULATION
Electrode construction Patent
[NASA-CASE-ARC-10043-1] c 05 N71-11193

Foamed in place ceramic refractory insulating material Patent
[NASA-CASE-XGS-02435] c 18 N71-22998

Method of removing insulated material from insulated wires
[NASA-CASE-FRC-10038] c 15 N72-20444

Inductance device with vacuum insulation
[NASA-CASE-LEW-10330-1] c 09 N72-27226

Insulated electrocardiographic electrodes --- without paste electrolyte
[NASA-CASE-MSC-14339-1] c 05 N75-24716

Silica reusable surface insulation
[NASA-CASE-ARC-10721-1] c 27 N76-22376

Two-component ceramic coating for silica insulation
[NASA-CASE-MSC-14270-1] c 27 N76-22377

Three-component ceramic coating for silica insulation
[NASA-CASE-MSC-14270-2] c 27 N76-23426
Field effect transistor and method of construction thereof
[NASA-CASE-MFS-23312-1] c 33 N78-27326
Cork-resin ablative insulation for complex surfaces and method for applying the same
[NASA-CASE-MFS-23626-1] c 24 N80-26388

INSULATORS

Electrostatic thruster with improved insulators Patent
[NASA-CASE-XLE-01902] c 28 N71-10574
High temperature resistant cermet and ceramic compositions --- for thermal resistant insulators and refractory coatings
[NASA-CASE-NPO-13690-1] c 27 N78-19302
Pyroelectric detector arrays
[NASA-CASE-LAR-12363-2] c 33 N83-24763

INTAKE SYSTEMS

Inlet deflector for jet engines Patent
[NASA-CASE-XLE-00388] c 28 N70-34788
The engine air intake system
[NASA-CASE-ARC-10761-1] c 07 N77-18154
Fluid sampling device
[NASA-CASE-GSC-12143-1] c 35 N77-32456
Passive propellant system
[NASA-CASE-MFS-23642-1] c 20 N80-10278
Reciprocating engines
[NASA-CASE-MSC-16239-1] c 37 N81-32510

INTEGRATED CIRCUITS

Counter and shift register Patent
[NASA-CASE-XNP-01753] c 08 N71-22897
Pulse rise time and amplitude detector Patent
[NASA-CASE-XMF-08804] c 09 N71-24717
Method and apparatus for swept-frequency impedance measurements of welds
[NASA-CASE-ARC-10176-1] c 15 N72-21464
Integrated circuit including field effect transistor and cermet resistor
[NASA-CASE-GSC-10835-1] c 09 N72-33205
Derivation of a tangent function using an integrated circuit four-quadrant multiplier
[NASA-CASE-MSC-13907-1] c 10 N73-26230
Coaxial inverted geometry transistor having buried emitter
[NASA-CASE-ARC-10330-1] c 09 N73-32112
Integrated circuit package with lead structure and method of preparing the same
[NASA-CASE-MFS-21374-1] c 33 N74-12951
Integrated P-channel MOS gyrator
[NASA-CASE-MFS-22343-1] c 33 N74-34638
Four phase logic systems --- including integrated microcircuits
[NASA-CASE-MSC-14240-1] c 33 N75-14957
Integrable power gyrator --- with Z-matrix design using parallel transistors
[NASA-CASE-MFS-22342-1] c 33 N75-30428
Cross correlation anomaly detection system
[NASA-CASE-NPO-13283] c 38 N78-17395
Complementary DMOS-VMOS integrated circuit structure
[NASA-CASE-GSC-12190-1] c 33 N79-12321
A general logic structure for custom LSI circuits
[NASA-CASE-NPO-14410-1] c 33 N79-25314
Method for analyzing radiation sensitivity of integrated circuits
[NASA-CASE-NPO-14350-1] c 33 N80-14332
Solar cell system having alternating current output
[NASA-CASE-LEW-12806-2] c 44 N81-12542
Microwave integrated circuit for Josephson voltage standards
[NASA-CASE-MFS-23845-1] c 33 N81-17348
Integrated photo-responsive metal oxide semiconductor circuit
[NASA-CASE-GSC-12782-1] c 33 N83-13360
Integrated opto-electronic laser beam deflector position detector
[NASA-CASE-NPO-15943-1] c 36 N83-20092

INTEGRATED OPTICS
Integrated optics in an electrically scanned imaging Fourier transform spectrometer
[NASA-CASE-NPO-15844-1] c 74 N83-12992

INTEGRATORS
Operational integrator Patent
[NASA-CASE-NPO-10230] c 09 N71-12520
Variable duration pulse integrator Patent
[NASA-CASE-XLA-01219] c 10 N71-23084
Variable width pulse integrator Patent
[NASA-CASE-XLA-03356] c 10 N71-23315
Feedback integrator with grounded capacitor Patent
[NASA-CASE-XAC-10607] c 10 N71-23669
High speed phase detector Patent
[NASA-CASE-XNP-01306-2] c 09 N71-24596
Adaptive control system for line-commutated inverters
[NASA-CASE-MFS-25209-1] c 33 N83-35227

INTERFACES

Geometries for roughness shapes in laminar flow
[NASA-CASE-LAR-13255-1] c 02 N84-12092

INTERFACIAL TENSION

Passive propellant system
[NASA-CASE-MFS-23642-1] c 20 N80-10278
Sphere forming method and apparatus
[NASA-CASE-NPO-15070-1] c 31 N83-35176

INTERFEROMETERS

Apparatus for controlling the velocity of an electromechanical drive for interferometers and the like Patent
[NASA-CASE-XGS-03532] c 14 N71-17627
Incremental motion drive system Patent
[NASA-CASE-XNP-08897] c 15 N71-17694
Laser grating interferometer Patent
[NASA-CASE-XLA-04295] c 16 N71-24170
Fringe counter for interferometers Patent
[NASA-CASE-LAR-10204] c 14 N71-27215
Interferometer-polarimeter
[NASA-CASE-NPO-11239] c 14 N73-12446
Interferometric rotation sensor
[NASA-CASE-ARC-10278-1] c 14 N73-25463
High resolution Fourier interferometer-spectrophotopolarimeter
[NASA-CASE-NPO-13604-1] c 35 N76-31490
Apparatus for providing a servo drive signal in a high-speed stepping interferometer
[NASA-CASE-NPO-13569-2] c 35 N79-14348
Velocity servo for continuous scan Fourier interference spectrometer
[NASA-CASE-NPO-14093-1] c 35 N80-20563
Interferometer
[NASA-CASE-NPO-14502-1] c 74 N81-17888
Interferometer --- high resolution
[NASA-CASE-NPO-14448-1] c 74 N81-29963
Optical gyroscope system
[NASA-CASE-NPO-14258-1] c 35 N81-33448
Low noise lead screw positioner
[NASA-CASE-NPO-15617-1] c 35 N82-33681
A dual differential interferometer
[NASA-CASE-LAR-12966-1] c 71 N83-12969
Integrated optics in an electrically scanned imaging Fourier transform spectrometer
[NASA-CASE-NPO-15844-1] c 74 N83-12992
Dual-beam skin friction interferometer
[NASA-CASE-ARC-11354-1] c 74 N83-21949
Interferometric angle monitor
[NASA-CASE-GSC-12614-1] c 74 N83-32577

INTERFEROMETRY

Surface roughness measuring system --- synthetic aperture radar measurements of ocean wave height and terrain peaks
[NASA-CASE-NPO-13862-1] c 35 N79-10391
Interferometric locating system
[NASA-CASE-NPO-14173-1] c 04 N80-32359

INTERLAYERS

Method of making a partial interlaminar separation composite system
[NASA-CASE-LAR-12065-2] c 24 N81-33235

INTERMEDIATE FREQUENCY AMPLIFIERS

Multichannel logarithmic RF level detector
[NASA-CASE-LAR-11021-1] c 32 N76-14321

INTERMETALLICS

Twisted multifilament superconductor
[NASA-CASE-LEW-11726-1] c 26 N73-26752
Synthesis of superconducting compounds by explosive compaction of powders
[NASA-CASE-MFS-20861-1] c 18 N73-32437
Improved nickel base coating alloy --- oxidation resistant coatings
[NASA-CASE-LEW-13834-1] c 26 N83-24639

INTERNAL COMBUSTION ENGINES

Fuel injection pump for internal combustion engines Patent
[NASA-CASE-MSC-12139-1] c 28 N71-14058
Continuous detonation reaction engine Patent
[NASA-CASE-XMF-06926] c 28 N71-22983
System for preconditioning a combustible vapor
[NASA-CASE-NPO-12072] c 28 N72-22772
System for minimizing internal combustion engine pollution emission
[NASA-CASE-NPO-13402-1] c 37 N76-18457
Combustion engine --- for air pollution control
[NASA-CASE-NPO-13671-1] c 37 N77-31497
Hydrogen-fueled engine
[NASA-CASE-NPO-13763-1] c 44 N78-33526
Plasma igniter for internal combustion engine
[NASA-CASE-NPO-13828-1] c 37 N79-11405
Indicated mean-effective pressure instrument
[NASA-CASE-LEW-12661-1] c 35 N79-14345
Start up system for hydrogen generator used with an internal combustion engine
[NASA-CASE-NPO-13849-1] c 28 N80-10374
Supercritical fuel injection system
[NASA-CASE-LEW-12990-1] c 07 N81-29129

Combustion engine system
[NASA-CASE-NPO-14565-2] c 25 N83-19826
Automatic compression adjusting mechanism for internal combustion engines
[NASA-CASE-MSC-18807-1] c 37 N83-36483

INTERPLANETARY SPACE

Heat shield Patent
[NASA-CASE-XMS-00486] c 33 N70-33344
RC networks and amplifiers employing the same
[NASA-CASE-XAC-05462-2] c 10 N72-17171

INTERPLANETARY SPACECRAFT

Transpirationally cooled heat ablation system Patent
[NASA-CASE-XMS-02677] c 31 N70-42075

INTERPLANETARY TRAJECTORIES

Means for visually indicating flight paths of vehicles between the Earth, Venus, and Mercury Patent
[NASA-CASE-XNP-00708] c 14 N70-35394

INTERPROCESSOR COMMUNICATION

Multicomputer communication system
[NASA-CASE-NPO-15433-1] c 62 N83-20634

INTERSTITIALS

Method of and apparatus for generating an interstitial point in a data stream having an even number of data points
[NASA-CASE-MFS-25319-1] c 64 N83-12932

INTRACRANIAL PRESSURE

Induction powered biological radiosonde
[NASA-CASE-ARC-11120-1] c 52 N80-18691

INTRAOCULAR PRESSURE

Intra-ocular pressure normalization technique and equipment
[NASA-CASE-LEW-12955-1] c 52 N80-14684
Intra-ocular pressure normalization technique and equipment
[NASA-CASE-LEW-12723-1] c 52 N80-18690

INTRAVEHICULAR ACTIVITY

Space suit
[NASA-CASE-MSC-12609-1] c 05 N73-32012

INTRAVENOUS PROCEDURES

Bio-medical flow sensor --- intravenous procedures
[NASA-CASE-MSC-18761-1] c 52 N83-27577

INTRUSION

Passive intrusion detection system
[NASA-CASE-NPO-13804-1] c 33 N80-23559

INVENTIONS

Active notch filter network with variable notch depth, width and frequency
[NASA-CASE-FRC-11055-1] c 33 N80-29583
Ion-exchange hollow fibers
[NASA-CASE-NPO-13309-1] c 25 N81-19244

INVERTED CONVERTERS (DC TO AC)

Inverter ratio failure detector
[NASA-CASE-NPO-13160-1] c 35 N74-18090
Variable frequency inverter for ac induction motors with torque, speed and braking control
[NASA-CASE-MFS-22088-1] c 33 N75-15874
Solar cell system having alternating current output
[NASA-CASE-LEW-12806-2] c 44 N81-12542
Power converter
[NASA-CASE-FRC-11014-1] c 33 N82-18494

INVERTERS

Transient-compensated SCR inverter
[NASA-CASE-XLA-08507] c 09 N69-39984
Inverter oscillator with voltage feedback
[NASA-CASE-NPO-10760] c 09 N72-25254
Overload protection system for power inverter
[NASA-CASE-NPO-13872-1] c 33 N78-10377
Module failure isolation circuit for paralleled inverters --- preventing system failure during power conditioning for spacecraft applications
[NASA-CASE-NPO-14000-1] c 33 N79-24254
Base drive for paralleled inverter systems
[NASA-CASE-NPO-14163-1] c 33 N81-14220
Adaptive reference voltage generator for firing angle control of line-commutated inverters
[NASA-CASE-MFS-25215-1] c 33 N83-31953
Adaptive control system for line-commutated inverters
[NASA-CASE-MFS-25209-1] c 33 N83-35227

IODINE

Method of using photovoltaic cell using poly-N-vinylcarbazole complex Patent
[NASA-CASE-NPO-10373] c 03 N71-18698
Simple method of making photovoltaic junctions Patent
[NASA-CASE-XNP-01960] c 09 N71-23027
Iodine generator for reclaimed water purification
[NASA-CASE-MSC-14632-1] c 54 N78-14784

IODINE COMPOUNDS

Perfluoroalkyl polytriazines containing pendent iododifluoromethyl groups
[NASA-CASE-ARC-11241-1] c 25 N81-14016

IODINE ISOTOPES

Production of high purity I-123
[NASA-CASE-LEW-10518-1] c 24 N72-33681

- Method of producing I-123 --- by bombardment of cesium causing spallation
[NASA-CASE-LEW-11390-2] c 25 N76-27383
Production of I-123
[NASA-CASE-LEW-11390-3] c 25 N76-29379
- ION ACCELERATORS**
Process for glass coating an ion accelerator grid Patent
[NASA-CASE-LEW-10278-1] c 15 N71-28582
Ion beam accelerator system
[NASA-CASE-NPO-15547-1] c 72 N84-16959
- ION BEAMS**
Ion beam deflector Patent
[NASA-CASE-LEW-10689-1] c 28 N71-26173
Dispensing targets for ion beam particle generators
[NASA-CASE-NPO-13112-1] c 73 N74-26767
Sputtering holes with ion beamlets
[NASA-CASE-LEW-11646-1] c 20 N74-31269
Method of constructing dished ion thruster grids to provide hole array spacing compensation
[NASA-CASE-LEW-11876-1] c 20 N76-21276
Ion beam thruster shield
[NASA-CASE-LEW-12082-1] c 20 N77-10148
Targets for producing high purity I-123
[NASA-CASE-LEW-10518-3] c 25 N78-27226
Method of cold welding using ion beam technology
[NASA-CASE-LEW-12982-1] c 37 N81-19455
Ion beam textured graphite electrode plates --- high efficiency electron tube devices
[NASA-CASE-LEW-12919-2] c 24 N82-26386
Ion beam accelerator system
[NASA-CASE-NPO-15547-1] c 72 N84-16959
- ION CHARGE**
Quadrupole mass filter with means to generate a noise spectrum exclusive of the resonant frequency of the desired ions to deflect stable ions
[NASA-CASE-XNP-04231] c 14 N73-32325
- ION CONCENTRATION**
Deposition of alloy films --- on irregularly shaped metal object
[NASA-CASE-LEW-11262-1] c 27 N74-13270
- ION CURRENTS**
System for monitoring the presence of neutrals in a stream of ions Patent
[NASA-CASE-XNP-02592] c 24 N71-20518
- ION CYCLOTRON RADIATION**
Ion and electron detector for use in an ICR spectrometer
[NASA-CASE-NPO-13479-1] c 35 N77-10492
- ION DENSITY (CONCENTRATION)**
Method and apparatus for measurement of trap density and energy distribution in dielectric films
[NASA-CASE-NPO-13443-1] c 76 N76-20994
- ION ENGINES**
Ion thruster cathode
[NASA-CASE-XLE-07087] c 06 N69-39889
High-vacuum condenser tank for ion rocket tests Patent
[NASA-CASE-XLE-00168] c 11 N70-33278
Ion thruster cathode Patent Application
[NASA-CASE-LEW-10814-1] c 28 N70-35422
Ion rocket Patent
[NASA-CASE-XLE-00376] c 28 N70-37245
Rocket engine Patent
[NASA-CASE-XLE-00342] c 28 N70-37980
Thrust dynamometer Patent
[NASA-CASE-XLE-00702] c 14 N70-40203
Apparatus for increasing ion engine beam density Patent
[NASA-CASE-XLE-00519] c 28 N70-41576
Double optic system for ion engine Patent
[NASA-CASE-XNP-02839] c 28 N70-41922
Electrostatic ion engine having a permanent magnetic circuit Patent
[NASA-CASE-XLE-01124] c 28 N71-14043
Electrostatic ion rocket engine Patent
[NASA-CASE-XLE-02066] c 28 N71-15661
System for monitoring the presence of neutrals in a stream of ions Patent
[NASA-CASE-XNP-02592] c 24 N71-20518
Construction and method of arranging a plurality of ion engines to form a cluster Patent
[NASA-CASE-XNP-02923] c 28 N71-23081
Electronic cathode having a brush-like structure and a relatively thick oxide emissive coating Patent
[NASA-CASE-XLE-04501] c 09 N71-23190
Ion engine casing construction and method of making same Patent
[NASA-CASE-XNP-06942] c 28 N71-23293
Ion thruster accelerator system Patent
[NASA-CASE-LEW-10106-1] c 28 N71-26642
Propellant feed isolator Patent
[NASA-CASE-LEW-10210-1] c 28 N71-26781
High efficiency ionizer assembly Patent
[NASA-CASE-XNP-01954] c 28 N71-28850
- Feed system for an ion thruster
[NASA-CASE-NPO-10737] c 28 N72-11709
Ion thruster with a combination keeper electrode and electron baffle
[NASA-CASE-NPO-11880] c 28 N73-24783
Single grid accelerator for an ion thruster
[NASA-CASE-XLE-10453-2] c 28 N73-27699
Method of making dished ion thruster grids
[NASA-CASE-LEW-11694-1] c 20 N75-18310
Method of constructing dished ion thruster grids to provide hole array spacing compensation
[NASA-CASE-LEW-11876-1] c 20 N76-21276
Ring-cusp ion thruster with shell anode
[NASA-CASE-LEW-13881-1] c 72 N83-21903
- ION EXCHANGE MEMBRANE ELECTROLYTES**
Method of making membranes
[NASA-CASE-XNP-04264] c 03 N69-21337
Ion-exchange membrane with platinum electrode assembly Patent
[NASA-CASE-XMS-02063] c 03 N71-29044
Formulated plastic separators for soluble electrode cells --- rubber-ion transport membranes
[NASA-CASE-LEW-12358-1] c 44 N79-17313
Insoluble polyelectrolyte and ion-exchange hollow fiber impregnated therewith
[NASA-CASE-NPO-13530-1] c 25 N81-17187
Method of making formulated plastic separators for soluble electrode cells
[NASA-CASE-LEW-12358-2] c 25 N82-21268
- ION EXCHANGE RESINS**
Inorganic-organic separators for alkaline batteries
[NASA-CASE-LEW-12649-1] c 44 N78-25530
Dialysis system --- using ion exchange resin membranes permeable to urea molecules
[NASA-CASE-NPO-14101-1] c 52 N80-14687
Membrane consisting of polyquaternary amine ion exchange polymer network interpenetrating the chains of thermoplastic matrix polymer
[NASA-CASE-NPO-14001-1] c 27 N81-14076
- ION EXCHANGING**
Membrane consisting of polyquaternary amine ion exchange polymer network interpenetrating the chains of thermoplastic matrix polymer
[NASA-CASE-NPO-14001-1] c 27 N81-14076
Ion-exchange hollow fibers
[NASA-CASE-NPO-13309-1] c 25 N81-19244
- ION EXTRACTION**
Apparatus for extraction and separation of a preferentially photo-dissociated molecular isotope into positive and negative ions by means of an electric field
[NASA-CASE-LEW-12465-1] c 25 N78-25148
Ion beam accelerator system
[NASA-CASE-NPO-15547-1] c 72 N84-16959
- ION IMPLANTATION**
Method of making V-MOS field effect transistors utilizing a two-step anisotropic etching and ion implantation
[NASA-CASE-GSC-12515-1] c 33 N81-26360
Hollow cathode apparatus
[NASA-CASE-NPO-15560-1] c 75 N84-16993
- ION IRRADIATION**
Modification of the electrical and optical properties of polymers --- ion irradiation to create texture
[NASA-CASE-LEW-13027-1] c 27 N80-24437
- ION MOTION**
Ion mass spectrometer --- exploring comet tails
[NASA-CASE-NPO-15423-1] c 91 N82-25042
- ION PLATING**
Catalyst surfaces for the chromous/chromic redox couple
[NASA-CASE-LEW-13148-2] c 44 N81-29524
- ION PROBES**
Ion microprobe mass spectrometer for analyzing fluid materials Patent
[NASA-CASE-ERC-10014] c 14 N71-28863
- ION PROPULSION**
Variable thrust ion engine utilizing thermally decomposable solid fuel Patent
[NASA-CASE-XMF-00923] c 28 N70-36802
Ion rocket Patent
[NASA-CASE-XLE-00376] c 28 N70-37245
Rocket engine Patent
[NASA-CASE-XLE-00342] c 28 N70-37980
Method of producing porous tungsten ionizers for ion rocket engines Patent
[NASA-CASE-XLE-00455] c 28 N70-38197
Double optic system for ion engine Patent
[NASA-CASE-XNP-02839] c 28 N70-41922
Electron bombardment ion engine Patent
[NASA-CASE-XNP-04124] c 28 N71-21822
Ion beam deflector Patent
[NASA-CASE-LEW-10689-1] c 28 N71-26173
Ion thruster accelerator system Patent
[NASA-CASE-LEW-10106-1] c 28 N71-26642
Feed system for an ion thruster
[NASA-CASE-NPO-10737] c 28 N72-11709
- Ion thruster
[NASA-CASE-LEW-10770-1] c 28 N72-22770
Ion thruster magnetic field control
[NASA-CASE-LEW-10835-1] c 28 N72-22771
Method of making dished ion thruster grids
[NASA-CASE-LEW-11694-1] c 20 N75-18310
Apparatus for forming dished ion thruster grids
[NASA-CASE-LEW-11694-2] c 37 N76-14461
Anode for ion thruster
[NASA-CASE-LEW-12048-1] c 20 N77-20162
Closed Loop solar array-ion thruster system with power control circuitry
[NASA-CASE-LEW-12780-1] c 20 N79-20179
A dc to dc converter
[NASA-CASE-MFS-25430-1] c 33 N84-16453
- ION PUMPS**
Mass spectrometer with magnetic pole pieces providing the magnetic fields for both the magnetic sector and an ion-type vacuum pump
[NASA-CASE-NPO-13663-1] c 35 N77-14406
- ION SOURCES**
Focussing system for an ion source having apertured electrodes Patent
[NASA-CASE-XNP-03332] c 09 N71-10618
Multilayer porous ionizer Patent
[NASA-CASE-XNP-04338] c 17 N71-23046
Ion thruster accelerator system Patent
[NASA-CASE-LEW-10106-1] c 28 N71-26642
High efficiency ionizer assembly Patent
[NASA-CASE-XNP-01954] c 28 N71-28850
Apparatus for ionization analysis
[NASA-CASE-ARC-10017-1] c 14 N72-29464
Sputtering holes with ion beamlets
[NASA-CASE-LEW-11646-1] c 20 N74-31269
Multitarget sequential sputtering apparatus
[NASA-CASE-NPO-13345-1] c 37 N75-19684
Miniature cyclotron resonance ion source using small permanent magnet
[NASA-CASE-NPO-14324-1] c 72 N80-27163
Hydrogen hollow cathode ion source
[NASA-CASE-LEW-12940-1] c 72 N80-33186
- ION TRAPS (INSTRUMENTATION)**
Method and apparatus for measurement of trap density and energy distribution in dielectric films
[NASA-CASE-NPO-13443-1] c 76 N76-20994
- IONIC MOBILITY**
Solid electrolyte cell
[NASA-CASE-NPO-15269-1] c 44 N82-29710
- IONIZATION**
MHD electrical generator
[NASA-CASE-NPO-15399-1] c 75 N82-24079
- IONIZATION CHAMBERS**
Baseline stabilization system for ionization detector Patent
[NASA-CASE-XNP-03128] c 10 N70-41991
Electron bombardment ion engine Patent
[NASA-CASE-XNP-04124] c 28 N71-21822
A multichannel photoionization chamber for absorption analysis Patent
[NASA-CASE-ERC-10044-1] c 14 N71-27090
Apparatus for ionization analysis
[NASA-CASE-ARC-10017-1] c 14 N72-29464
- IONIZATION GAGES**
Ionization vacuum gauge Patent
[NASA-CASE-XNP-00646] c 14 N70-35666
Pressure monitoring with a plurality of ionization gauges controlled at a central location Patent
[NASA-CASE-XLE-00787] c 14 N71-21090
Apparatus for ionization analysis
[NASA-CASE-ARC-10017-1] c 14 N72-29464
Ultrahigh vacuum measuring ionization gauge
[NASA-CASE-XLA-05087] c 14 N73-30391
- IONIZATION POTENTIALS**
Field ionization electrodes Patent
[NASA-CASE-ERC-10013] c 09 N71-26678
- IONIZED GASES**
Probes having ring and primary sensor at same potential to prevent collection of stray wall currents in ionized gases
[NASA-CASE-XLE-00690] c 25 N69-39884
Transient heat transfer gauge Patent
[NASA-CASE-XNP-09802] c 33 N71-15641
Apparatus for extraction and separation of a preferentially photo-dissociated molecular isotope into positive and negative ions by means of an electric field
[NASA-CASE-LEW-12465-1] c 25 N78-25148
- IONIZERS**
Water management system and an electrolytic cell therefor Patent
[NASA-CASE-MSC-10960-1] c 03 N71-24718
Method of making dished ion thruster grids
[NASA-CASE-LEW-11694-1] c 20 N75-18310
Particle analyzing method and apparatus
[NASA-CASE-NPO-15292-1] c 35 N83-27184

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IONIZING RADIATION

- High-voltage cable Patent
[NASA-CASE-XNP-00738] c 09 N70-38201
- Reinforced polyquinoxaline gasket and method of preparing the same --- resistant to ionizing radiation and liquid hydrogen temperatures
[NASA-CASE-MFS-21364-1] c 37 N74-18126

IONOSPHERE

- Ionospheric battery Patent
[NASA-CASE-XGS-01593] c 03 N70-35408

IONOSPHERIC DISTURBANCES

- Method and apparatus for calibrating the ionosphere and application to surveillance of geophysical events
[NASA-CASE-NPO-15430-1] c 46 N82-26890

IONOSPHERIC ELECTRON DENSITY

- Method and apparatus for calibrating the ionosphere and application to surveillance of geophysical events
[NASA-CASE-NPO-15430-1] c 46 N82-26890

IONS

- Micrometeoroid analyzer
[NASA-CASE-ARC-10443-1] c 14 N73-20477

IRIDIUM

- Thermocouples of molybdenum and iridium alloys for more stable vacuum-high temperature performance
[NASA-CASE-LEW-12174-2] c 35 N79-14346

IRISES (MECHANICAL APERTURES)

- Active microwave irises and windows
[NASA-CASE-LAR-10513-1] c 07 N72-25170
- Thin film microwave iris
[NASA-CASE-LAR-10511-1] c 09 N72-29172

IRON ALLOYS

- Tantalum modified ferritic iron base alloys
[NASA-CASE-LEW-12095-1] c 26 N78-18182
- Process for making a high toughness-high strength iron alloy
[NASA-CASE-LEW-12542-2] c 26 N79-22271
- High toughness-high strength iron alloy
[NASA-CASE-LEW-12542-3] c 26 N80-32484
- Overlay metallic-cermet alloy coating systems --- for gas turbine engines
[NASA-CASE-LEW-13639-1] c 27 N82-33522

IRON CHLORIDES

- Improved chromium electrodes for REDOX cells
[NASA-CASE-LEW-13653-1] c 44 N82-22672

IRON COMPOUNDS

- Coal desulfurization --- using iron pentacarbonyl
[NASA-CASE-NPO-14272-1] c 25 N81-33246

IRRADIATION

- Solar sensor having coarse and fine sensing with matched preirradiated cells and method of selecting cells Patent
[NASA-CASE-XLA-01584] c 14 N71-23269
- Apparatus for obtaining isotropic irradiation of a specimen
[NASA-CASE-MFS-20095] c 24 N72-11595
- Production of pure metals
[NASA-CASE-LEW-10906-1] c 25 N74-30502
- Method for analyzing radiation sensitivity of integrated circuits
[NASA-CASE-NPO-14350-1] c 33 N80-14332
- Violet process for producing flame resistant polyamides and products produced thereby --- protective clothing for high oxygen environments
[NASA-CASE-MSC-16074-1] c 27 N80-26446

IRRIGATION

- Solar-powered pump
[NASA-CASE-NPO-13567-1] c 44 N76-29701

ISOLATION

- High thermal power density heat transfer apparatus providing electrical isolation at high temperature using heat pipes
[NASA-CASE-LEW-12950-2] c 44 N83-29804

ISOLATORS

- Propellant feed isolator Patent
[NASA-CASE-LEW-10210-1] c 28 N71-26781
- Positive isolation disconnect
[NASA-CASE-MSC-16043-1] c 37 N79-11402
- Resonant isolator for maser amplifier
[NASA-CASE-NPO-15201-1] c 36 N83-35350

ISOPROPYL ALCOHOL

- Highly fluorinated polymers
[NASA-CASE-MFS-11492] c 06 N73-30102

ISOTHERMAL LAYERS

- Isothermal cover with thermal reservoirs Patent
[NASA-CASE-MFS-20355] c 33 N71-25353

ISOTHERMAL PROCESSES

- Opto-mechanical subsystem with temperature compensation through isothermal design
[NASA-CASE-GSC-12059-1] c 35 N77-27366

ISOTOPE SEPARATION

- Isotope separation using metallic vapor lasers
[NASA-CASE-NPO-13550-1] c 36 N77-26477

JET AIRCRAFT

- Inlet deflector for jet engines Patent
[NASA-CASE-XLE-00388] c 28 N70-34788
- Multiple pure tone elimination strut assembly --- air breathing engines
[NASA-CASE-FRC-11062-1] c 71 N82-16800

JET AIRCRAFT NOISE

- Jet aircraft configuration Patent
[NASA-CASE-XLA-00087] c 02 N70-33332
- Noise suppressor --- for turbofan engine by incorporating annular acoustically porous elements in exhaust and inlet ducts
[NASA-CASE-LAR-11141-1] c 07 N74-32418
- Abating exhaust noises in jet engines
[NASA-CASE-ARC-10712-1] c 07 N74-33218
- Instrumentation for measurement of aircraft noise and sonic boom
[NASA-CASE-LAR-11173-1] c 35 N75-19614
- Cascade plug nozzle --- for jet noise reduction
[NASA-CASE-LAR-11674-1] c 07 N76-18117
- Noise suppressor for turbo fan jet engines
[NASA-CASE-ARC-10812-1] c 07 N83-33884
- Apparatus and method for jet noise suppression
[NASA-CASE-LAR-11903-2] c 71 N84-14873

JET AMPLIFIERS

- Fluid jet amplifier
[NASA-CASE-XLE-03512] c 12 N69-21466
- Fluid jet amplifier Patent
[NASA-CASE-XLE-09341] c 12 N71-28741

JET BLAST EFFECTS

- Single action separation mechanism Patent
[NASA-CASE-XLA-00188] c 15 N71-22874

JET CONTROL

- Attitude control for spacecraft Patent
[NASA-CASE-XNP-00294] c 21 N70-36938

JET ENGINES

- Absorptive splitter for closely spaced supersonic engine air inlets Patent
[NASA-CASE-XLA-02865] c 28 N71-15563
- Thrust dynamometer Patent
[NASA-CASE-XLE-05260] c 14 N71-20429
- Nacelle afterbody for jet engines Patent
[NASA-CASE-XLA-10450] c 28 N71-21493
- Welding blades to rotors
[NASA-CASE-LEW-10533-1] c 15 N73-28515
- Variably positioned guide vanes for aerodynamic choking
[NASA-CASE-LAR-10642-1] c 07 N74-31270
- Cascade plug nozzle --- for jet noise reduction
[NASA-CASE-LAR-11674-1] c 07 N76-18117
- The engine air intake system
[NASA-CASE-ARC-10761-1] c 07 N77-18154
- Stator rotor tools
[NASA-CASE-MSC-16000-1] c 37 N78-24544
- Electrical servo actuator bracket --- fuel control valves on jet engines
[NASA-CASE-FRC-11044-1] c 37 N81-33483
- Diffuser/ejector system for a very high vacuum environment
[NASA-CASE-MFS-15791-1] c 37 N82-33712

JET EXHAUST

- Jet exhaust noise suppressor
[NASA-CASE-LEW-11286-1] c 07 N74-27490

JET FLOW

- Two phase flow system with discrete impinging two-phase jets
[NASA-CASE-NPO-11556] c 12 N72-25292

JET MIXING FLOW

- Rocket engine injector Patent
[NASA-CASE-XLE-00111] c 28 N70-38199

JET NOZZLES

- Fluid jet amplifier
[NASA-CASE-XLE-03512] c 12 N69-21466
- Thrust and direction control apparatus Patent
[NASA-CASE-XLE-03583] c 31 N71-17629
- Heater-mixer for stored fluids
[NASA-CASE-ARC-10442-1] c 35 N74-15093

JET PROPULSION

- Two dimensional wedge/translating shroud nozzle
[NASA-CASE-LAR-11919-1] c 07 N78-27121

JET THRUST

- Control system for rocket vehicles Patent
[NASA-CASE-XLA-01163] c 21 N71-15582
- Reactance control system Patent
[NASA-CASE-XMF-01598] c 21 N71-15583

- Method and apparatus for rapid thrust increases in a turbofan engine
[NASA-CASE-LEW-12971-1] c 07 N80-18039

JETTISON SYSTEMS

- Space capsule ejection assembly Patent
[NASA-CASE-XMF-03169] c 31 N71-15675
- Method and system for ejecting fairing sections from a rocket vehicle
[NASA-CASE-GSC-10590-1] c 31 N73-14853
- Explosively activated egress area
[NASA-CASE-LAR-12624-1] c 01 N83-35992

JIGS

- Apparatus for positioning modular components on a vertical or overhead surface
[NASA-CASE-LAR-11465-1] c 37 N76-21554
- Solar cell module assembly jig
[NASA-CASE-XGS-00829-1] c 44 N79-19447

JOINING

- Integrated gas turbine engine-nacelle
[NASA-CASE-LEW-12389-3] c 07 N79-14096

JOINTS (ANATOMY)

- Space suit pressure stabilizer Patent
[NASA-CASE-XLA-05332] c 05 N71-11194
- Equipotential space suit Patent
[NASA-CASE-LAR-10007-1] c 05 N71-11195
- Omnidirectional joint Patent
[NASA-CASE-XMS-09635] c 05 N71-24623
- Orthotic arm joint --- for use in mechanical arms
[NASA-CASE-MFS-21611-1] c 54 N75-12616
- Rotational joint assembly for the prosthetic leg
[NASA-CASE-KSC-11004-1] c 54 N77-30749
- Spacesuit mobility knee joints
[NASA-CASE-LAR-11058-2] c 54 N79-24651

JOINTS (JUNCTIONS)

- Electrode and insulator with shielded dielectric junction
[NASA-CASE-XLE-03778] c 09 N69-21542
- Elastic universal joint Patent
[NASA-CASE-XNP-00416] c 15 N70-36947
- Portable alignment tool Patent
[NASA-CASE-XMF-01452] c 15 N70-41371
- Pressure garment joint Patent
[NASA-CASE-XMS-09636] c 05 N71-12344
- Technique of elbow bending small jacketed transfer lines Patent
[NASA-CASE-XNP-10475] c 15 N71-24679
- Method and apparatus for precision sizing and joining of large diameter tubes Patent
[NASA-CASE-XMF-05114-2] c 15 N71-26148
- Frictionless universal joint Patent
[NASA-CASE-NPO-10646] c 15 N71-28467
- Spherical shield Patent
[NASA-CASE-XNP-01855] c 15 N71-28937
- Universal restrainer and joint Patent
[NASA-CASE-XNP-02278] c 15 N71-28951
- Diffusion welding in air --- solid state welding of butt joint by fusion welding, surface cleaning, and heating
[NASA-CASE-LEW-11387-1] c 37 N74-18128
- Bonded joint and method --- for reducing peak shear stress in adhesive bonds
[NASA-CASE-LAR-10900-1] c 37 N74-23064
- Flexible joint for pressurizable garment
[NASA-CASE-MSC-11072] c 54 N74-32546
- Method of making an explosively welded scarf joint
[NASA-CASE-LAR-11211-1] c 37 N75-12326
- Latching device
[NASA-CASE-MFS-21606-1] c 37 N75-19685
- Method of determining bond quality of power transistors attached to substrates --- X ray inspection of junction microstructure
[NASA-CASE-MFS-21931-1] c 37 N75-26372
- Externally supported internally stabilized flexible duct joint
[NASA-CASE-MFS-19194-1] c 37 N76-14460
- Wrist joint assembly
[NASA-CASE-MFS-23311-1] c 54 N78-17676
- Spacesuit mobility joints
[NASA-CASE-ARC-11058-1] c 54 N78-31735
- Thermal barrier pressure seal --- shielding junctions between spacecraft control surfaces and structures
[NASA-CASE-MSC-18134-1] c 37 N81-15363
- Reusable captive blind fastener
[NASA-CASE-MSC-18742-1] c 37 N82-26673
- Interlocking wedge joint
[NASA-CASE-LAR-12729-1] c 37 N82-26676
- Pressure suit joint analyzer
[NASA-CASE-ARC-11314-1] c 54 N82-26987
- Self-locking mechanical center joint --- for space construction
[NASA-CASE-LAR-12864-1] c 37 N82-29606
- Mechanical end joint system for structural column elements
[NASA-CASE-LAR-12482-1] c 37 N82-32732
- Automatic weld torch guidance control system
[NASA-CASE-MFS-25807] c 37 N83-20154

- Articulated joint for deployable structures
[NASA-CASE-NPO-16038-1] c 37 N83-20157
Electrical rotary joint apparatus for large space structures
[NASA-CASE-MFS-23981-1] c 07 N83-20944
Optimized bolted joint
[NASA-CASE-LAR-13250-1] c 37 N84-20859

JOSEPHSON JUNCTIONS

- Doped Josephson tunneling junction for use in a sensitive IR detector
[NASA-CASE-NPO-13348-1] c 33 N75-31332
Microwave integrated circuit for Josephson voltage standards
[NASA-CASE-MFS-23845-1] c 33 N81-17348

JOULE-THOMSON EFFECT

- Refrigeration apparatus
[NASA-CASE-NPO-10309] c 15 N69-23190
Cycling Joule Thomson refrigerator
[NASA-CASE-NPO-15251-1] c 31 N83-31897

JOURNAL BEARINGS

- Slit regulated gas journal bearing Patent
[NASA-CASE-XNP-00476] c 15 N70-38620
Air bearing assembly for curved surfaces
[NASA-CASE-MFS-20423] c 15 N72-11388
Journal bearings --- for lubricant films
[NASA-CASE-LEW-11076-1] c 37 N74-21061
Journal Bearings
[NASA-CASE-LEW-11076-2] c 37 N74-32921
Lubricated journal bearing
[NASA-CASE-LEW-11076-3] c 37 N75-30562
Fluid journal bearings
[NASA-CASE-LEW-11076-4] c 37 N76-15461

JUNCTION DIODES

- Phototransistor
[NASA-CASE-MFS-20407] c 09 N73-19235
Diode-quad bridge circuit means
[NASA-CASE-ARC-10364-2] c 33 N75-25041
Charge storage diode modulators and demodulators
[NASA-CASE-NPO-10189-1] c 33 N77-21314
Integrating IR detector imaging systems
[NASA-CASE-NPO-15805-1] c 74 N83-20757

JUNCTION TRANSISTORS

- Apparatus for ballasting high frequency transistors
[NASA-CASE-XGS-05003] c 09 N69-24318
Semiconductor transducer device
[NASA-CASE-ERC-10087-2] c 14 N72-31446
Method of determining bond quality of power transistors attached to substrates --- X ray inspection of junction microstructure
[NASA-CASE-MFS-21931-1] c 37 N75-26372

K**KEYING**

- High-speed multiplexing of keyboard data inputs
[NASA-CASE-NPO-14554-1] c 60 N81-27814

KIDNEY DISEASES

- Aldehyde-containing urea-absorbing polysaccharides
[NASA-CASE-NPO-13620-1] c 27 N77-30236
Apparatus for disintegrating kidney stones
[NASA-CASE-GSC-12652-1] c 52 N82-26961

KIDNEYS

- Apparatus for disintegrating kidney stones
[NASA-CASE-GSC-12652-1] c 52 N82-26961

KINETIC ENERGY

- Non-reusable kinetic energy absorber Patent
[NASA-CASE-XLE-00810] c 15 N70-34861
Method and turbine for extracting kinetic energy from a stream of two-phase fluid
[NASA-CASE-NPO-14130-1] c 34 N79-20335

KINETIC FRICTION

- Friction measuring apparatus Patent
[NASA-CASE-XNP-08680] c 14 N71-22995

KINETICS

- Micrometeoroid analyzer
[NASA-CASE-ARC-10443-1] c 14 N73-20477

KRAFT PROCESS (WOODPULP)

- Process for purification of waste water produced by a Kraft process pulp and paper mill
[NASA-CASE-NPO-13847-2] c 85 N79-17747

L**LABORATORY EQUIPMENT**

- Stirring apparatus for plural test tubes Patent
[NASA-CASE-XAC-06956] c 15 N71-21177
Gas purged dry box glove Patent
[NASA-CASE-XLE-02531] c 05 N71-23080
Gas liquefaction and dispensing apparatus Patent
[NASA-CASE-NPO-10070] c 15 N71-27372
Variable angle tube holder
[NASA-CASE-LAR-10507-1] c 11 N72-25284
Method for controlling vapor content of a gas
[NASA-CASE-NPO-10633] c 03 N72-28025

- Zero gravity liquid mixer
[NASA-CASE-LAR-10195-1] c 15 N73-19458
Automatic real-time pair-feeding system for animals
[NASA-CASE-ARC-10302-1] c 51 N74-15778

- Automated single-slide staining device
[NASA-CASE-LAR-11649-1] c 51 N77-27677

- Machine for use in monitoring fatigue life for a plurality of elastomeric specimens
[NASA-CASE-NPO-13731-1] c 39 N78-10493
The 2 deg/90 deg laboratory scattering photometer --- particulate refractivity in hydrosols
[NASA-CASE-GSC-12088-1] c 74 N78-13874

- Automatic multiple-sample applicator and electrophoresis apparatus
[NASA-CASE-ARC-10991-1] c 25 N78-14104

- Microelectrophoretic apparatus and process
[NASA-CASE-ARC-11121-1] c 25 N79-14169

- Electrophoresis device
[NASA-CASE-MFS-25426-1] c 25 N83-10126

- Laboratory glassware rack for seismic safety
[NASA-CASE-ARC-11422-1] c 35 N84-20808

- LACQUERS**
Method for applying photographic resists to otherwise incompatible substrates
[NASA-CASE-MSC-18107-1] c 27 N81-25209

- LADDERS**
Dielectric based submillimeter backward wave oscillator circuit
[NASA-CASE-LEW-13736-1] c 33 N83-17802

- LAMINAR FLOW**
Laminar flow enhancement Patent
[NASA-CASE-NPO-10122] c 12 N71-17631

- Detection of the transitional layer between laminar and turbulent flow areas on a wing surface --- using an accelerometer to measure pressure levels during wind tunnel tests
[NASA-CASE-LAR-12261-1] c 02 N80-20224

- Continuous laminar smoke generator --- visualizing flow around wind tunnel models
[NASA-CASE-LAR-13014-1] c 28 N83-35158

- LAMINAR FLOW AIRFOILS**
Geometries for roughness shapes in laminar flow
[NASA-CASE-LAR-13255-1] c 02 N84-12092

- LAMINATES**
Multilayer porous ionizer Patent
[NASA-CASE-XNP-04338] c 17 N71-23046

- Polyimide resin-fiberglass cloth laminates for printed circuit boards
[NASA-CASE-MFS-20408] c 18 N73-12604

- Reinforced polyquinoxaline gasket and method of preparing the same --- resistant to ionizing radiation and liquid hydrogen temperatures
[NASA-CASE-MFS-21364-1] c 37 N74-18126

- Method of laminating structural members
[NASA-CASE-XLA-11028-1] c 24 N74-27035

- Bonding method in the manufacture of continuous regression rate sensor devices
[NASA-CASE-LAR-10337-1] c 24 N75-30260

- Transparent fire resistant polymeric structures
[NASA-CASE-ARC-10813-1] c 27 N76-16230

- Leading edge protection for composite blades
[NASA-CASE-LEW-12550-1] c 24 N77-19170

- Hybrid composite laminate structures
[NASA-CASE-LEW-12118-1] c 24 N77-27188

- Honeycomb-laminate composite structure
[NASA-CASE-ARC-10913-1] c 24 N78-15180

- Composite lamination method
[NASA-CASE-LAR-12019-1] c 24 N78-17150

- Lightweight electrically-powered flexible thermal laminate --- made of metal and nonconductive yarns
[NASA-CASE-MSC-12662-1] c 33 N79-12331

- Process for preparing high temperature polyimide film laminates
[NASA-CASE-LAR-12742-1] c 24 N81-12174

- Method for alleviating thermal stress damage in laminates --- metal matrix composites
[NASA-CASE-LEW-12493-1] c 24 N81-17170

- Method for alleviating thermal stress damage in laminates
[NASA-CASE-LEW-12493-2] c 24 N81-26179

- Method of making a partial interlaminar separation composite system
[NASA-CASE-LAR-12065-2] c 24 N81-33235

- Fuselage structure using advanced technology fiber reinforced composites
[NASA-CASE-LAR-11888-1] c 24 N82-26384

- Method of tracing contour patterns for use in making gradual contour resin matrix composites
[NASA-CASE-ARC-11246-1] c 31 N83-34073

- Piezoelectric composite materials
[NASA-CASE-LEW-12582-1] c 76 N83-34796

- Improved impact tolerant material
[NASA-CASE-LAR-12887-1] c 24 N84-20649

LANDFORMS

- Method for observing the features characterizing the surface of a land mass
[NASA-CASE-FRC-11013-1] c 43 N81-17499

LANDING AIDS

- Altitude sensing device
[NASA-CASE-XMS-01994-1] c 14 N72-17326
Magnetic position detection method and apparatus
[NASA-CASE-ARC-10179-1] c 21 N72-22619
Full color hybrid display for aircraft simulators --- landing aids
[NASA-CASE-ARC-10903-1] c 09 N78-18083

- LANDING GEAR**
Pivotal shock absorbing pad assembly Patent
[NASA-CASE-XMF-03856] c 31 N70-34159

- Nose gear steering system for vehicle with main skids Patent
[NASA-CASE-XLA-01804] c 02 N70-34160

- Landing pad assembly for aerospace vehicles Patent
[NASA-CASE-XMF-02853] c 31 N70-36654

- Aircraft wheel spray drag alleviator Patent
[NASA-CASE-XLA-01583] c 02 N70-36825

- Space craft soft landing system Patent
[NASA-CASE-XMF-02108] c 31 N70-36845

- Double-acting shock absorber Patent
[NASA-CASE-XMF-01045] c 15 N70-40354

- Landing gear Patent
[NASA-CASE-XMF-01174] c 02 N70-41589

- Tire/wheel concept
[NASA-CASE-LAR-11695-2] c 37 N81-24443

- LANDING MODULES**
Double-acting shock absorber Patent
[NASA-CASE-XMF-01045] c 15 N70-40354

- LANDING SIMULATION**
Impact simulator Patent
[NASA-CASE-XLA-00493] c 11 N70-34786

- LANTHANUM COMPOUNDS**
Stabilized lanthanum sulphur compounds --- thermoelectric materials
[NASA-CASE-NPO-16135-1] c 25 N83-24572

- LARGE SCALE INTEGRATION**
A general logic structure for custom LSI circuits
[NASA-CASE-NPO-14410-1] c 33 N79-25314

- General logic structure for custom LSI circuits
[NASA-CASE-NPO-14410-2] c 33 N82-25440

- Combinational logic for generating gate drive signals for phase control rectifiers
[NASA-CASE-MFS-25208-1] c 33 N83-10345

- Split-cross-bridge-resistor for testing for proper fabrication of integrated circuit
[NASA-CASE-NPO-16021-1] c 33 N83-24769

- LARGE SPACE STRUCTURES**
Structural members, method and apparatus
[NASA-CASE-MSC-16217-1] c 31 N81-27323

- Electrical rotary joint apparatus for large space structures
[NASA-CASE-MFS-23981-1] c 07 N83-20944

- Induction heating gun
[NASA-CASE-LAR-13181-1] c 33 N83-29591

- Beam connector apparatus and assembly
[NASA-CASE-MFS-25134-1] c 31 N83-31895

- LASER ALTIMETERS**
Sidelooking laser altimeter for a flight simulator
[NASA-CASE-ARC-11312-1] c 36 N83-34304

- LASER APPLICATIONS**
High power laser apparatus and system
[NASA-CASE-XLE-2529-2] c 36 N75-27364

- Fiber distributed feedback laser
[NASA-CASE-NPO-13531-1] c 36 N76-24553

- Wind measurement system
[NASA-CASE-MFS-23362-1] c 47 N77-10753

- Pseudo-backscatter laser Doppler velocimeter employing antiparallel-reflector in the forward direction
[NASA-CASE-ARC-10970-1] c 36 N77-25501

- Compact pulsed laser having improved heat conductance
[NASA-CASE-NPO-13147-1] c 36 N77-25502

- Laser extensometer
[NASA-CASE-MFS-19259-1] c 36 N78-14380

- Apparatus for extraction and separation of a preferentially photo-dissociated molecular isotope into positive and negative ions by means of an electric field
[NASA-CASE-LEW-12465-1] c 25 N78-25148

- Volumetric direct nuclear pumped laser
[NASA-CASE-LAR-12183-1] c 36 N79-18307

- Arrangement for damping the resonance in a laser diode
[NASA-CASE-NPO-15980-1] c 36 N82-28618

- Method of an apparatus for measuring temperature and pressure --- remote sensing of the atmosphere
[NASA-CASE-GSC-12558-1] c 35 N82-29580

- Ranging system --- industrial robotics
[NASA-CASE-NPO-15865-1] c 74 N83-12991

- Rhomboid prism pair for rotating the plane of parallel light beams
[NASA-CASE-ARC-11311-1] c 74 N83-13978

- Dual laser optical system and method for studying fluid flow
[NASA-CASE-MFS-25315-1] c 36 N83-29680
- Laser activated MTOS microwave device
[NASA-CASE-NPO-18112-1] c 36 N84-12463
- High-temperature, high-pressure optical cell
[NASA-CASE-MFS-26000-1] c 74 N84-16986
- LASER CAVITIES**
- Laser apparatus
[NASA-CASE-GSC-12237-1] c 36 N80-14384
- Laser Resonator
[NASA-CASE-GSC-12565-1] c 36 N84-14509
- LASER DOPPLER VELOCIMETERS**
- Dual wavelength scanning Doppler velocimeter --- without perturbation of flow fields
[NASA-CASE-ARC-10637-1] c 35 N75-16783
- Combined dual scatter, local oscillator laser Doppler velocimeter
[NASA-CASE-ARC-10642-1] c 36 N76-14447
- Focused laser Doppler velocimeter
[NASA-CASE-MFS-23178-1] c 35 N77-10493
- Pseudo-backscatter laser Doppler velocimeter employing antiparallel-reflector in the forward direction
[NASA-CASE-ARC-10970-1] c 36 N77-25501
- Optical scanner --- laser doppler velocimeters
[NASA-CASE-LAR-11711-1] c 74 N78-17866
- Versatile LDV burst simulator
[NASA-CASE-LAR-11859-1] c 35 N79-14349
- Laser Doppler velocity simulator --- to induce frequency shift
[NASA-CASE-LAR-12176-1] c 36 N80-16321
- Direction sensitive laser velocimeter --- determining the direction of particles using a helium-neon laser
[NASA-CASE-LAR-12177-1] c 36 N81-24422
- Scanning afocal laser velocimeter projection lens system
[NASA-CASE-LAR-12328-1] c 36 N82-32712
- Auto covariance computer
[NASA-CASE-LAR-12968-1] c 35 N83-34273
- Powder fed sheared dispersal particle generator
[NASA-CASE-LAR-12785-1] c 37 N84-16561
- LASER DRILLING**
- In-situ laser retorting of oil shale
[NASA-CASE-LEW-12217-1] c 43 N78-14452
- LASER FUSION**
- Laser surface fusion of plasma sprayed ceramic turbine seals
[NASA-CASE-LEW-13269-1] c 18 N83-20996
- LASER GUIDANCE**
- Scanning afocal laser velocimeter projection lens system
[NASA-CASE-LAR-12328-1] c 36 N82-32712
- LASER GYROSCOPES**
- Optical gyroscope system
[NASA-CASE-NPO-14258-1] c 35 N81-33448
- LASER HEATING**
- Electric power generation system directory from laser power
[NASA-CASE-NPO-13308-1] c 36 N75-30524
- Method and apparatus for shaping and enhancing acoustical levitation forces
[NASA-CASE-MFS-25050-1] c 71 N81-15767
- LASER INTERFEROMETRY**
- Dual-beam skin friction interferometer
[NASA-CASE-ARC-11354-1] c 74 N83-21949
- LASER MATERIALS**
- Laser head for simultaneous optical pumping of several dye lasers --- with single flash lamp
[NASA-CASE-LAR-11341-1] c 36 N75-19655
- Solar pumped laser
[NASA-CASE-LAR-12870-1] c 36 N84-16542
- LASER MODE LOCKING**
- Laser system with an antiresonant optical ring
[NASA-CASE-HQN-10844-1] c 36 N75-19653
- Dually mode locked Nd:YAG laser
[NASA-CASE-GSC-11746-1] c 36 N75-19654
- Length controlled stabilized mode-lock Nd:YAG laser
[NASA-CASE-GSC-11571-1] c 36 N77-25499
- Geodetic distance measuring apparatus
[NASA-CASE-GSC-12609-2] c 36 N83-29681
- LASER MODES**
- Optical pump and driver system for lasers
[NASA-CASE-ERC-10283] c 16 N72-25485
- Acoustically controlled distributed feedback laser
[NASA-CASE-NPO-13175-1] c 36 N75-31427
- LASER OUTPUTS**
- Method and apparatus for wavelength tuning of liquid lasers
[NASA-CASE-ERC-10187] c 16 N69-31343
- Laser Doppler system for measuring three dimensional vector velocity Patent
[NASA-CASE-MFS-20386] c 21 N71-19212
- Amplitude modulated laser transmitter Patent
[NASA-CASE-XMS-04269] c 16 N71-22895
- Laser fluid velocity detector Patent
[NASA-CASE-XAC-10770-1] c 16 N71-24828
- Laser calibrator Patent
[NASA-CASE-XLA-03410] c 16 N71-25914
- Method and apparatus for optical modulating a light signal Patent
[NASA-CASE-GSC-10216-1] c 23 N71-26722
- Laser machining apparatus Patent
[NASA-CASE-HQN-10541-2] c 15 N71-27135
- Optical frequency waveguide and transmission system Patent
[NASA-CASE-HQN-10541-4] c 16 N71-27183
- Laser communication system for controlling several functions at a location remote to the laser
[NASA-CASE-LAR-10311-1] c 16 N73-16536
- Power supply for carbon dioxide lasers
[NASA-CASE-GSC-11222-1] c 16 N73-32391
- Thermomagnetic recording and magneto-optic playback system having constant intensity laser beam control
[NASA-CASE-NPO-11317-2] c 36 N74-13205
- Apparatus for scanning the surface of a cylindrical body
[NASA-CASE-NPO-11861-1] c 36 N74-20009
- Optically detonated explosive device
[NASA-CASE-NPO-11743-1] c 28 N74-27425
- Clear air turbulence detector
[NASA-CASE-MFS-21244-1] c 36 N75-15028
- Dually mode locked Nd:YAG laser
[NASA-CASE-GSC-11746-1] c 36 N75-19654
- Laser head for simultaneous optical pumping of several dye lasers --- with single flash lamp
[NASA-CASE-LAR-11341-1] c 36 N75-19655
- Acoustically controlled distributed feedback laser
[NASA-CASE-NPO-13175-1] c 36 N75-31427
- Optical noise suppression device and method --- laser light exposing film
[NASA-CASE-MSC-12640-1] c 74 N76-31998
- Length controlled stabilized mode-lock Nd:YAG laser
[NASA-CASE-GSC-11571-1] c 36 N77-25499
- Apparatus for photon excited catalysis
[NASA-CASE-NPO-13566-1] c 25 N77-32255
- Method and apparatus for Doppler frequency modulation of radiation
[NASA-CASE-NPO-14524-1] c 32 N80-24510
- Spatial energy distribution --- scanning a tunable diode laser beam automatically
[NASA-CASE-LAR-12631-1] c 35 N82-18557
- High power metallic halide laser --- amplifying a copper chloride laser
[NASA-CASE-NPO-14782-1] c 36 N82-28616
- Collimated beam manifold with the number of output beams variable at a given output angle
[NASA-CASE-MFS-25312-1] c 74 N83-17305
- LASER PLASMAS**
- Continuous plasma laser --- method and apparatus for producing intense, coherent, monochromatic light from low temperature plasma
[NASA-CASE-XNP-04167-3] c 36 N77-19416
- LASER PUMPING**
- Laser apparatus
[NASA-CASE-GSC-12237-1] c 36 N80-14384
- Large volume multiple-path nuclear pumped laser
[NASA-CASE-LAR-12592-1] c 36 N82-13415
- Solar pumped laser
[NASA-CASE-LAR-12870-1] c 36 N84-16542
- LASER RANGE FINDERS**
- Laser measuring system for incremental assemblies --- measuring wire-wrapped frame assemblies in spark chambers
[NASA-CASE-GSC-12321-1] c 36 N82-16396
- Optical distance measuring instrument
[US-PATENT-APPL-SN-406820] c 74 N83-13982
- LASER RANGER/TRACKER**
- Method and apparatus for aligning a laser beam projector Patent
[NASA-CASE-NPO-11087] c 23 N71-29125
- LASER SPECTROSCOPY**
- Stark effect spectrophone for continuous absorption spectra monitoring --- a technique for gas analysis
[NASA-CASE-NPO-15102-1] c 25 N81-25159
- LASER WINDOWS**
- Optical scanner --- laser doppler velocimeters
[NASA-CASE-LAR-11711-1] c 74 N78-17866
- LASERS**
- Laser apparatus for removing material from rotating objects Patent
[NASA-CASE-MFS-11279] c 16 N71-20400
- Laser grating interferometer Patent
[NASA-CASE-XLA-04295] c 16 N71-24170
- Optical frequency waveguide Patent
[NASA-CASE-HQN-10541-1] c 07 N71-26291
- Laser camera and diffusion filter therefore Patent
[NASA-CASE-NPO-10417] c 16 N71-33410
- Optical probing of supersonic flows with statistical correlation
[NASA-CASE-MFS-20642] c 14 N72-21407
- A technique for breaking ice in the path of a ship
[NASA-CASE-LAR-10815-1] c 16 N72-22520
- Alignment apparatus using a laser having a gravitationally sensitive cavity reflector
[NASA-CASE-ARC-10444-1] c 16 N73-33397
- Tunable cavity resonator with ramp shaped supports
[NASA-CASE-HQN-10790-1] c 36 N74-11313
- Short range laser obstacle detector --- for surface vehicles using laser diode array
[NASA-CASE-NPO-11856-1] c 36 N74-15145
- Long range laser traversing system
[NASA-CASE-GSC-11262-1] c 36 N74-21091
- Deep trap, laser activated image converting system
[NASA-CASE-NPO-13131-1] c 36 N75-19652
- Laser system with an antiresonant optical ring
[NASA-CASE-HQN-10844-1] c 36 N75-19653
- Acoustically controlled distributed feedback laser
[NASA-CASE-NPO-13175-1] c 36 N75-31427
- Method and apparatus for generating coherent radiation in the ultra-violet region and above by use of distributed feedback
[NASA-CASE-NPO-13346-1] c 36 N76-29575
- Polarization compensator for optical communications
[NASA-CASE-GSC-11782-1] c 74 N76-30053
- Gregorian all-reflective optical system
[NASA-CASE-GSC-12058-1] c 74 N77-26942
- Wideband heterodyne receiver for laser communication system
[NASA-CASE-GSC-12053-1] c 32 N77-28346
- Method and apparatus for splitting a beam of energy --- optical communication
[NASA-CASE-GSC-12083-1] c 73 N78-32848
- Shock isolator for operating a diode laser on a closed-cycle refrigerator
[NASA-CASE-GSC-12297-1] c 37 N79-28549
- Off-axis coherently pumped laser
[NASA-CASE-GSC-12592-1] c 36 N81-12407
- LATCHES**
- Despin weight release Patent
[NASA-CASE-XLA-00679] c 15 N70-38601
- Helmet assembly and latch means therefor Patent
[NASA-CASE-XMS-04935] c 05 N71-11190
- Quick disconnect latch and handle combination Patent
[NASA-CASE-MFS-11132] c 15 N71-17649
- Latching mechanism Patent
[NASA-CASE-XMS-03745] c 15 N71-21076
- Latch/ejector unit Patent
[NASA-CASE-XLA-03538] c 15 N71-24897
- Latching mechanism Patent
[NASA-CASE-MSC-15474-1] c 15 N71-26162
- Latch mechanism
[NASA-CASE-MSC-12549-1] c 37 N74-27903
- Latching device
[NASA-CASE-MFS-21606-1] c 37 N75-19685
- Load regulating latch
[NASA-CASE-MSC-19535-1] c 37 N77-32499
- Helmet latching and attaching ring
[NASA-CASE-XMS-04670] c 54 N78-17678
- Low temperature latching solenoid
[NASA-CASE-MSC-18106-1] c 33 N82-11357
- Hemispherical latching apparatus for payload retention
[NASA-CASE-MFS-25837] c 16 N82-31398
- Slide release mechanism --- for the external tank
[NASA-CASE-MSC-20080-1] c 37 N82-31688
- Connection system
[NASA-CASE-MSC-20319-1] c 37 N82-31689
- CAM controlled retractable door latch
[NASA-CASE-MSC-20304-1] c 37 N82-31690
- Mechanical end joint system for structural column elements
[NASA-CASE-LAR-12482-1] c 37 N82-32732
- Self-indexing latch system
[NASA-CASE-MFS-25956-1] c 37 N84-20860
- LATERAL CONTROL**
- Three-axis controller Patent
[NASA-CASE-XAC-01404] c 05 N70-41581
- Roll attitude star sensor system Patent
[NASA-CASE-XNP-01307] c 21 N70-41856
- High speed flight vehicle control Patent
[NASA-CASE-XLA-08967] c 02 N71-27088
- Vortex-lift roll-control device
[NASA-CASE-LAR-11868-2] c 08 N79-14108
- Leading edge flap system for aircraft control augmentation
[NASA-CASE-LAR-12787-1] c 05 N82-25240
- LATERAL STABILITY**
- Annular wing
[NASA-CASE-FRC-11007-2] c 05 N82-26277
- LATEX**
- Molten salt pyrolysis of latex --- synthetic hydrocarbon fuel production using the Guayule shrub
[NASA-CASE-NPO-14315-1] c 27 N81-17261
- Process for preparation of large-particle-size monodisperse latexes
[NASA-CASE-MFS-25000-1] c 25 N81-19242
- LATHES**
- Apparatus for machining geometric cones Patent
[NASA-CASE-XMS-04292] c 15 N71-22722

Lathe tool bit and holder for machining fiberglass materials
[NASA-CASE-XLA-10470] c 15 N72-21489

LAUNCH ESCAPE SYSTEMS
Emergency escape system Patent
[NASA-CASE-XKS-02342] c 05 N71-11199
Device for separating occupant from an ejection seat Patent
[NASA-CASE-XMS-04625] c 05 N71-20718

LAUNCH VEHICLE CONFIGURATIONS
Rotating launch device for a remotely piloted aircraft
[NASA-CASE-ARC-10979-1] c 09 N77-19076

LAUNCH VEHICLES
A support technique for vertically oriented launch vehicles
[NASA-CASE-XLA-02704] c 11 N69-21540
Method and apparatus for detection and location of microleaks Patent
[NASA-CASE-XMF-02307] c 14 N71-10779

LAUNCHING PADS
Missile launch release system Patent
[NASA-CASE-XMF-03198] c 30 N70-40353
Remote controlled tubular disconnect Patent
[NASA-CASE-XLA-01396] c 03 N71-12259
Validation device for spacecraft checkout equipment Patent
[NASA-CASE-XKS-10543] c 07 N71-26292

LAY-UP
Method of making a partial interlaminar separation composite system
[NASA-CASE-LAR-12065-2] c 24 N81-33235

LAYERS
Atomic hydrogen storage method and apparatus
[NASA-CASE-LEW-12081-1] c 28 N78-24365

LEACHING
Process for the leaching of AP from propellant
[NASA-CASE-NPO-14109-1] c 28 N80-23471

LEAD (METAL)
Lead-oxygen dc power supply system having a closed loop oxygen and water system
[NASA-CASE-MFS-23059-1] c 44 N76-27664
Catalyst surfaces for the chromous/chromic redox couple
[NASA-CASE-LEW-13148-2] c 44 N81-29524
Joining lead wires to thin platinum alloy films
[NASA-CASE-LEW-13934-1] c 35 N83-35338

LEAD SULFIDES
Integrated photo-responsive metal oxide semiconductor circuit
[NASA-CASE-GSC-12782-1] c 33 N83-13360

LEAD TELLURIDES
Bonding thermoelectric elements to nonmagnetic refractory metal electrodes
[NASA-CASE-XGS-04554] c 15 N69-39786
Segmenting lead telluride-silicon germanium thermoelements Patent
[NASA-CASE-XGS-05718] c 26 N71-16037

LEADING EDGE FLAPS
Leading edge vortex flaps for drag reduction --- during subsonic flight
[NASA-CASE-LAR-12750-1] c 02 N81-19016
Leading edge flap system for aircraft control augmentation
[NASA-CASE-LAR-12787-1] c 05 N82-25240

LEADING EDGES
Reentry vehicle leading edge Patent
[NASA-CASE-XLA-00165] c 31 N70-33242
Leading edge curvature based on convective heating Patent
[NASA-CASE-XLA-01486] c 01 N71-23497
Leading edge protection for composite blades
[NASA-CASE-LEW-12550-1] c 24 N77-19170
Pumped vortex
[NASA-CASE-LAR-12625-1] c 02 N83-19715
Rotor blade with passive tuned tab
[NASA-CASE-ARC-11444-1] c 02 N83-25663
Piezoelectric deicing device
[NASA-CASE-LEW-13773-1] c 05 N83-29197
Geometries for roughness shapes in laminar flow
[NASA-CASE-LAR-13255-1] c 02 N84-12092

LEAKAGE
Rocket chamber leak test fixture
[NASA-CASE-XFR-09479] c 14 N69-27503
Method and apparatus for detection and location of microleaks Patent
[NASA-CASE-XMF-02307] c 14 N71-10779
Leak detector Patent
[NASA-CASE-LAR-10323-1] c 12 N71-17573
Hard space suit Patent
[NASA-CASE-XAC-07043] c 05 N71-23161
Method for leakage testing of tanks Patent
[NASA-CASE-XMF-02392] c 32 N71-24285
Leak detector wherein a probe is monitored with ultraviolet radiation Patent
[NASA-CASE-ERC-10034] c 15 N71-24896

Method for detecting leaks in hermetically sealed containers Patent
[NASA-CASE-ERC-10045] c 15 N71-24910
Method and apparatus for detecting gross leaks Patent
[NASA-CASE-ERC-10033] c 14 N71-26672
Orifice gross leak tester Patent
[NASA-CASE-ERC-10150] c 14 N71-28992
Leak detector
[NASA-CASE-MFS-21761-1] c 35 N75-15931
Vacuum leak detector
[NASA-CASE-LAR-11237-1] c 35 N75-19612
Low heat leak connector for cryogenic system
[NASA-CASE-XLE-02367-1] c 31 N79-21225
Carbon granule probe microphone for leak detection
[NASA-CASE-NPO-16027-1] c 33 N83-29595
Portable laser remote system for methane gas detection
[NASA-CASE-NPO-15790-1] c 36 N83-33137

LEG (ANATOMY)
Actuator device for artificial leg
[NASA-CASE-MFS-23225-1] c 52 N77-14735
Rotational joint assembly for the prosthetic leg
[NASA-CASE-KSC-11004-1] c 54 N77-30749
Mechanical energy storage device for hip disarticulation
[NASA-CASE-ARC-10916-1] c 52 N78-10686

LENS DESIGN
Chromatically corrected virtual image display --- lens design for flight simulators
[NASA-CASE-LAR-12251-1] c 74 N79-14892

LENSES
High temperature lens construction Patent
[NASA-CASE-XNP-04111] c 14 N71-15622
Image magnification adapter for cameras Patent
[NASA-CASE-XMF-03844-1] c 14 N71-26474
Petzval type objective including field shaping lens Patent
[NASA-CASE-GSC-10700] c 23 N71-30027
Method and apparatus for eliminating coherent noise in a coherent energy imaging system without destroying spatial coherence
[NASA-CASE-GSC-11133-1] c 23 N72-11568
Plural beam antenna
[NASA-CASE-GSC-11013-1] c 09 N73-19234
Spatial filter for Q-switched lasers
[NASA-CASE-LEW-12164-1] c 36 N77-32478
Process for producing a well-adhered durable optical coating on an optical plastic substrate --- abrasion resistant polymethyl methacrylate lenses
[NASA-CASE-ARC-11039-1] c 74 N78-32854
Chromatically corrected virtual image visual display --- reducing eye strain in flight simulators
[NASA-CASE-LAR-12251-1] c 74 N80-27185
Constant magnification optical tracking system
[NASA-CASE-NPO-14813-1] c 74 N82-24072
Scanning afocal laser velocimeter projection lens system
[NASA-CASE-LAR-12328-1] c 36 N82-32712
Interferometric angle monitor
[NASA-CASE-GSC-12614-1] c 74 N83-32577

LENTICULAR BODIES
Space and atmospheric reentry vehicle Patent
[NASA-CASE-XGS-00260] c 31 N70-37924

LEVEL (HORIZONTAL)
Hot wire liquid level detector for cryogenic fluids Patent
[NASA-CASE-XLE-00454] c 23 N71-17802
Rotary leveling base platform
[NASA-CASE-ARC-10981-1] c 37 N78-27425

LEVEL (QUANTITY)
Spherical tank gauge Patent
[NASA-CASE-XMS-06236] c 14 N71-21007
Positive dc to positive dc converter Patent
[NASA-CASE-XMF-14301] c 09 N71-23188

LEVELING
Adjustable attitude guide device Patent
[NASA-CASE-XLA-07911] c 15 N71-15571
Electrical switching device Patent
[NASA-CASE-NPO-10037] c 09 N71-19610
Adjustable support
[NASA-CASE-NPO-10721] c 15 N72-27484
Automatically operable self-leveling load table
[NASA-CASE-MFS-22039-1] c 09 N75-12968

LEVITATION
Closed loop electrostatic system
[NASA-CASE-NPO-15553-1] c 33 N83-12335
Gas levitator having fixed levitation node for containerless processing
[NASA-CASE-MFS-25509-1] c 35 N83-24828

LIFE (DURABILITY)
Hollow rolling element bearings
[NASA-CASE-LEW-11087-3] c 37 N74-21064
Method of increasing minority carrier lifetime in silicon web or the like
[NASA-CASE-NPO-15530-1] c 76 N83-35888

LIFE DETECTORS

Use of the enzyme hexokinase for the reduction of inherent light levels
[NASA-CASE-XGS-05533] c 04 N69-27487
Lyophilized reaction mixtures Patent
[NASA-CASE-XGS-05532] c 06 N71-17705

LIFE RAFTS

Life raft Patent
[NASA-CASE-XMS-00863] c 05 N70-34857
Life raft stabilizer
[NASA-CASE-MSC-12393-1] c 02 N73-26006
Modification of one man life raft
[NASA-CASE-LAR-10241-1] c 54 N74-14845

LIFE SUPPORT SYSTEMS

Shock absorbing support and restraint means Patent
[NASA-CASE-XMS-01240] c 05 N70-35152
Portable environmental control system Patent
[NASA-CASE-XMS-09632-1] c 05 N71-11203
Extravehicular tunnel suit system Patent
[NASA-CASE-MSC-12243-1] c 05 N71-24728
Foreshortened convolute section for a pressurized suit Patent
[NASA-CASE-XMS-09637-1] c 05 N71-24730
Orbital escape device Patent
[NASA-CASE-XMS-06162] c 31 N71-28851
Specialized halogen generator for purification of water Patent
[NASA-CASE-XLA-08913] c 14 N71-28933
Life support system
[NASA-CASE-MSC-12411-1] c 05 N72-20096
Air removal device
[NASA-CASE-XLA-8914] c 15 N73-12492
Space suit
[NASA-CASE-MSC-12609-1] c 05 N73-32012
Catalyst cartridge for carbon dioxide reduction unit
[NASA-CASE-LAR-10551-1] c 25 N74-12813
Helmet feedport
[NASA-CASE-XMS-09653] c 54 N78-17680
Cooling system for removing metabolic heat from an hermetically sealed spacesuit
[NASA-CASE-ARC-11059-1] c 54 N78-32721
Air removal device --- life support systems
[NASA-CASE-XLA-8914-2] c 25 N82-21269

LIFT

Pumped vortex
[NASA-CASE-LAR-12625-1] c 02 N83-19715

LIFT DEVICES

Device for handling heavy loads
[NASA-CASE-XNP-04969] c 11 N69-27466
Recoverable rocket vehicle Patent
[NASA-CASE-XMF-00389] c 31 N70-34176
Direct lift control system Patent
[NASA-CASE-LAR-10249-1] c 02 N71-26110
Ferry system
[NASA-CASE-LAR-10574-1] c 11 N73-13257
High lift aircraft --- with improved stability, control, performance, and noise characteristics
[NASA-CASE-LAR-11252-1] c 05 N75-25914
Device for installing rocket engines
[NASA-CASE-MFS-19220-1] c 20 N76-22296
Vortex-lift roll-control device
[NASA-CASE-LAR-11868-2] c 08 N79-14108

LIFT DRAG RATIO

Ring wing tension vehicle Patent
[NASA-CASE-XLA-04901] c 31 N71-24315
Annular wing
[NASA-CASE-FRC-11007-2] c 05 N82-26277

LIFTING BODIES

Recoverable rocket vehicle Patent
[NASA-CASE-XMF-00389] c 31 N70-34176
Lifting body Patent Application
[NASA-CASE-FRC-10063] c 01 N71-12217
Lift balancing device
[NASA-CASE-LAR-10348-1] c 11 N73-12264

LIFTING REENTRY VEHICLES

Space and atmospheric reentry vehicle Patent
[NASA-CASE-XGS-00260] c 31 N70-37924
Variable geometry manned orbital vehicle Patent
[NASA-CASE-XLA-03691] c 31 N71-15674
Flight craft Patent
[NASA-CASE-XAC-02058] c 02 N71-16087

LIGHT (VISIBLE RADIATION)

Anti-glare improvement for optical imaging systems Patent
[NASA-CASE-NPO-10337] c 14 N71-15604
Maksutov spectrograph Patent
[NASA-CASE-XLA-10402] c 14 N71-29041
Combustion detector
[NASA-CASE-LAR-10739-1] c 14 N73-16484
Optical fiber tactile sensor
[NASA-CASE-NPO-15375-1] c 74 N84-11921

LIGHT AIRCRAFT

Direct lift control system Patent
[NASA-CASE-LAR-10249-1] c 02 N71-26110

LIGHT BEAMS

Spectroscope equipment using a slender cylindrical reflector as a substitute for a slit Patent
[NASA-CASE-XGS-08269] c 23 N71-26206

Optical communications system Patent
[NASA-CASE-XLA-01090] c 16 N71-28963
Multiple hologram recording and readout system Patent

[NASA-CASE-ERC-10151] c 16 N71-29131
Rhomboid prism pair for rotating the plane of parallel light beams

[NASA-CASE-ARC-11311-1] c 74 N83-13978
Collimated beam manifold with the number of output beams variable at a given output angle
[NASA-CASE-MFS-25312-1] c 74 N83-17305

LIGHT EMITTING DIODES

Photoelectric detection system --- manufacturing automation
[NASA-CASE-MFS-23776-1] c 33 N82-28545

Heads up display
[NASA-CASE-LAR-12630-1] c 06 N82-29319

LIGHT GAS GUNS

Hypervelocity gun Patent
[NASA-CASE-XAC-05902] c 11 N71-18578

LIGHT MODULATION

Retrodirective modulator Patent
[NASA-CASE-GSC-10062] c 14 N71-15605
Light intensity modulator controller Patent

[NASA-CASE-XMS-04300] c 09 N71-19479
Method and apparatus for optical modulating a light signal Patent

[NASA-CASE-GSC-10216-1] c 23 N71-26722
Optical communications system Patent
[NASA-CASE-XLA-01090] c 16 N71-28963

Lamp modulator
[NASA-CASE-KSC-10565] c 09 N72-25250
Polarization compensator for optical communications

[NASA-CASE-GSC-11782-1] c 74 N76-30053
Method and apparatus for Doppler frequency modulation of radiation

[NASA-CASE-NPO-14524-1] c 32 N80-24510
Fluorescent radiation converter
[NASA-CASE-GSC-12528-1] c 74 N81-24900

LIGHT SCATTERING

The 2 deg/90 deg laboratory scattering photometer --- particulate refractivity in hydrosols
[NASA-CASE-GSC-12088-1] c 74 N78-13874

LIGHT SCATTERING METERS

System for the measurement of ultra-low stray light levels --- determining the adequacy of large space telescope systems
[NASA-CASE-MFS-23513-1] c 74 N79-11865

LIGHT SOURCES

Light radiation direction indicator with a baffle of two parallel grids
[NASA-CASE-XNP-03930] c 14 N69-24331

High intensity heat and light unit Patent
[NASA-CASE-XLA-00141] c 09 N70-33312
Photosensitive device to detect bearing deviation Patent

[NASA-CASE-XNP-00438] c 21 N70-35089
Light position locating system Patent
[NASA-CASE-XNP-01059] c 23 N71-21821

Optical systems having spatially invariant outputs
[NASA-CASE-ERC-10248] c 14 N72-17323
Ultraprecise calibrated light source

[NASA-CASE-MSC-12293-1] c 14 N72-27411
Temperature compensated light source using a light emitting diode
[NASA-CASE-ARC-10467-1] c 09 N73-14214

Interferometric rotation sensor
[NASA-CASE-ARC-10278-1] c 14 N73-25463
Attitude sensor

[NASA-CASE-LAR-10586-1] c 19 N74-15089
Very high intensity light source using a cathode ray tube --- electron beams

[NASA-CASE-XNP-01296] c 33 N75-27250
Electric arc light source having undercut recessed anode
[NASA-CASE-ARC-10266-1] c 33 N75-29318

Uniform variable light source
[NASA-CASE-NPO-11429-1] c 74 N77-21941

LIGHT TRANSMISSION

Hybrid holographic system using reflected and transmitted object beams simultaneously Patent
[NASA-CASE-MFS-20074] c 16 N71-15565

Optical characteristics measuring apparatus Patent
[NASA-CASE-XNP-08840] c 23 N71-16365
Optical monitor panel Patent

[NASA-CASE-XKS-03509] c 14 N71-23175
Solar cell panels with light transmitting plate
[NASA-CASE-NPO-10747] c 03 N72-22042

Optical frequency waveguide and transmission system
[NASA-CASE-HQN-10541-3] c 23 N72-23695
Light regulator

[NASA-CASE-LAR-10836-1] c 26 N72-27784

Transmitting and reflecting diffuser --- for ultraviolet light

[NASA-CASE-LAR-10385-2] c 70 N74-13436
Optical instrument employing reticle having preselected visual response pattern formed thereon

[NASA-CASE-ARC-10976-1] c 74 N77-22950
Transmitting and reflecting diffuser --- using ultraviolet grade fused silica coatings

[NASA-CASE-LAR-10385-3] c 74 N78-15879
Constant magnification optical tracking system
[NASA-CASE-NPO-14813-1] c 74 N82-24072

LIGHT VALVES

Wide dynamic range video camera
[NASA-CASE-MFS-25750-1] c 33 N83-35229

LIGHTING EQUIPMENT

Internal work light Patent
[NASA-CASE-XKS-05932] c 09 N71-26787
Pressurized lighting system

[NASA-CASE-KSC-10644] c 09 N72-27227
Remote lightning monitor system
[NASA-CASE-KSC-11031-1] c 33 N79-11315

LIGHTNING

Determining distance to lightning strokes from a single station
[NASA-CASE-KSC-10698] c 07 N73-20175

Lightning tracking system
[NASA-CASE-KSC-10729-1] c 09 N73-32110
Automatic lightning detection and photographic system

[NASA-CASE-KSC-10728-1] c 14 N73-32319
Lightning current measuring systems
[NASA-CASE-KSC-10807-1] c 33 N75-26246

Lightning current waveform measuring system
[NASA-CASE-KSC-11018-1] c 33 N79-10337
Lightning current detector

[NASA-CASE-KSC-11057-1] c 33 N79-14305
Lightning discharge identification system
[NASA-CASE-XLE-11099-1] c 47 N82-24779

LIMBS (ANATOMY)

Prosthesis coupling
[NASA-CASE-KSC-11069-1] c 52 N79-26772
Apparatus for determining changes in limb volume

[NASA-CASE-MSC-18759-1] c 52 N83-27578

LIMITER CIRCUITS

Variable duration pulse integrator Patent
[NASA-CASE-XLA-01219] c 10 N71-23084

Noise limiter Patent
[NASA-CASE-NPO-10169] c 10 N71-24844
Velocity limiting safety system Patent

[NASA-CASE-XLA-07473] c 15 N71-24895
Low level signal limiter
[NASA-CASE-XLE-04791] c 32 N74-22096

Inrush current limiter
[NASA-CASE-GSC-11789-1] c 33 N77-14333

LINE OF SIGHT

Retinally stabilized differential resolution television display
[US-PATENT-APPL-SN-425204] c 32 N83-12308

LINE SPECTRA

Stark cell optoacoustic detection of constituent gases in sample
[NASA-CASE-NPO-14143-1] c 25 N81-14015

LINEAR ACCELERATORS

Linear accelerator frequency control system Patent
[NASA-CASE-XGS-05441] c 10 N71-22962

LINEAR ARRAYS

Multispectral imaging and analysis system --- using charge coupled devices and linear arrays
[NASA-CASE-NPO-13691-1] c 43 N79-17288

LINEAR INTEGRATED CIRCUITS

Integrating IR detector imaging systems
[NASA-CASE-NPO-15805-1] c 74 N83-20757

LINEAR POLARIZATION

Wide dynamic range video camera
[NASA-CASE-MFS-25750-1] c 33 N83-35229

LINEAR RECEIVERS

Antenna array at focal plane of reflector with coupling network for beam switching Patent
[NASA-CASE-GSC-10220-1] c 07 N71-27233

LINEAR SYSTEMS

Linear three-tap feedback shift register Patent
[NASA-CASE-NPO-10351] c 08 N71-12503
A m-ary linear feedback shift register with binary logic

[NASA-CASE-NPO-11868] c 10 N73-20254
Reciprocating linear motor
[NASA-CASE-GSC-12773-1] c 33 N83-12332

Linear magnetic bearings
[NASA-CASE-GSC-12582-2] c 37 N83-13460

LINEARITY

Semi-linear ball bearing Patent
[NASA-CASE-XLA-02809] c 15 N71-22982
Mechanical actuator Patent

[NASA-CASE-XGS-04548] c 15 N71-24045
Linear magnetic bearing
[NASA-CASE-GSC-12517-1] c 37 N83-32067

LININGS

Fully plasma-sprayed compliant backed ceramic turbine seal
[NASA-CASE-LEW-13268-1] c 27 N82-29453

Steam cooled rich-burn combustor liner
[NASA-CASE-LEW-13609-1] c 25 N83-17628
Fully plasma-sprayed compliant backed ceramic turbine seal

[NASA-CASE-LEW-13268-3] c 37 N83-28450

LINKAGES

Collapsible nozzle extension for rocket engines Patent
[NASA-CASE-MFS-11497] c 28 N71-16224

Adjustable force probe
[NASA-CASE-MFS-20760] c 14 N72-33377
Locking redundant link

[NASA-CASE-LAR-11900-1] c 37 N79-14382
Compensating linkage for main rotor control
[NASA-CASE-LAR-11797-1] c 05 N81-19087

LIQUEFACTION

Ophthalmic liquefaction pump
[NASA-CASE-LEW-12051-1] c 52 N75-33640

LIQUID ATOMIZATION

Constant-output atomizer --- Inhalation therapy and aerosol research
[NASA-CASE-XLE-25631-1] c 34 N84-12406

LIQUID BEARINGS

High speed hybrid bearing comprising a fluid bearing and a rolling bearing connected in series
[NASA-CASE-LEW-11152-1] c 15 N73-32359

LIQUID CHROMATOGRAPHY

A spillage detector for liquid chromatography systems
[NASA-CASE-MSC-20206-1] c 25 N83-29325

LIQUID COOLING

Water cooled contactor for anode in carbon arc mechanism
[NASA-CASE-XMS-03700] c 15 N69-24266

External liquid-spray cooling of turbine blades Patent
[NASA-CASE-XLE-00037] c 28 N70-33372
Solenoid construction Patent

[NASA-CASE-XNP-01951] c 09 N70-41929
Laminar flow enhancement Patent
[NASA-CASE-NPO-10122] c 12 N71-17631

Space suit heat exchanger Patent
[NASA-CASE-XMS-09571] c 05 N71-19439
Power system with heat pipe liquid coolant lines Patent

[NASA-CASE-MFS-14114-2] c 09 N71-24807
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[NASA-CASE-XNP-01747] c 15 N71-23024

Propellant mass distribution metering apparatus Patent
[NASA-CASE-NPO-10185] c 10 N71-26339

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Hot wire liquid level detector for cryogenic fluids Patent
[NASA-CASE-XLE-00454] c 23 N71-17802

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Method and apparatus for distillation of liquids Patent
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[NASA-CASE-ARC-10441-1] c 35 N74-15126

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Automatic liquid inventory collecting and dispensing unit
[NASA-CASE-LAR-11071-1] c 35 N75-19611

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Low gravity phase separator
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[NASA-CASE-LAR-12465-1] c 33 N82-26572

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Pneumatic load compensating or controlling system
[NASA-CASE-ARC-10907-1] c 37 N75-32465

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[NASA-CASE-XMS-06782] c 32 N71-15974

Load relieving device Patent
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Method and apparatus for tensile testing of metal foil
[NASA-CASE-LAR-10208-1] c 35 N76-18400

Fatigue failure load indicator
[NASA-CASE-LAR-12027-1] c 39 N79-22537

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Differential pressure cell Patent
[NASA-CASE-XAC-00042] c 14 N70-34816

Method and apparatus for transfer function simulator for testing complex systems
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Portable 90 deg proof loading device
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[NASA-CASE-XLE-02999] c 15 N71-16052

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[NASA-CASE-ERC-10088] c 26 N71-25490

Turn on transient limiter Patent
[NASA-CASE-GSC-10413] c 10 N71-26531

Synchronous dc direct drive system Patent
[NASA-CASE-GSC-10065-1] c 10 N71-27136

Force-balanced, throttle valve Patent
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Energy absorption device Patent
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Device for measuring bearing preload
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G-load measuring and indicator apparatus --- for aircraft
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Spring operated accelerometer and constant force spring mechanism therefor
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Penetrometer --- for determining load bearing characteristics of inclined surfaces
[NASA-CASE-NPO-11103-1] c 35 N77-27367

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[NASA-CASE-MSC-12593-1] c 17 N76-21250

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[NASA-CASE-XMS-07846-1] c 09 N69-21927

Interlocking wedge joint
[NASA-CASE-LAR-12729-1] c 37 N82-26676

Variable length strut with longitudinal compliance and locking capability --- constructing truss and beam structures in space and interconnecting an orbit transfer vehicle and a payload
[NASA-CASE-MFS-25907-1] c 37 N83-31019

Self-locking telescoping manipulator arm
[NASA-CASE-MFS-25906-1] c 54 N84-11761

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Locking device with rolling detents Patent
[NASA-CASE-XMF-01371] c 15 N70-41829

Bearing and gimbal lock mechanism and spiral flex lead module Patent
[NASA-CASE-GSC-10556-1] c 31 N71-26537

Locking device for turbine rotor blades Patent
[NASA-CASE-XNP-00816] c 28 N71-28928

Film feed camera having a detent means Patent
[NASA-CASE-LAR-10686] c 14 N71-28935

Safety-type locking pin
[NASA-CASE-MFS-18495] c 15 N72-11385

Locking mechanism for orthopedic braces
[NASA-CASE-GSC-12082-1] c 54 N76-22914

Portable appliance security apparatus
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Locking mechanism for orthopedic braces
[NASA-CASE-GSC-12082-2] c 52 N81-25661

High temperature penetrator assembly with bayonet plug and ramp-activated lock
[NASA-CASE-MSC-18526-1] c 37 N82-24494

Self-locking mechanical center joint --- for space construction
[NASA-CASE-LAR-12864-1] c 37 N82-29606

Aircraft canopy lock
[NASA-CASE-FRC-11065-1] c 05 N83-19737

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Training vehicle for controlling attitude Patent
[NASA-CASE-XMS-02977] c 11 N71-10746

Restraint torso for a pressurized suit
[NASA-CASE-MSC-12397-1] c 05 N72-25119

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[NASA-CASE-GSC-12145-1] c 33 N78-32339

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Logarithmic function generator utilizing an exponentially varying signal in an inverse manner
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A method for selective gold diffusion of monolithic silicon devices and/or circuits Patent application
[NASA-CASE-ERC-10072] c 09 N70-11148

Relay binary circuit Patent
[NASA-CASE-XMF-00421] c 09 N70-34502

Binary to binary-coded-decimal converter Patent
[NASA-CASE-XNP-00432] c 08 N70-35423

Analog-to-digital conversion system Patent
[NASA-CASE-XAC-00404] c 08 N70-40125

Data processor having multiple sections activated at different times by selective power coupling to the sections Patent
[NASA-CASE-XGS-04767] c 08 N71-12494

Binary sequence detector Patent
[NASA-CASE-XNP-05415] c 08 N71-12505

AC logic flip-flop circuits Patent
[NASA-CASE-XGS-00823] c 10 N71-15910

Logic AND gate for fluid circuits Patent
[NASA-CASE-XLA-07391] c 12 N71-17579

Ripple add and ripple subtract binary counters Patent
[NASA-CASE-XGS-04766] c 08 N71-18602

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[NASA-CASE-XLA-07732] c 08 N71-18751

Stepping motor control circuit Patent
[NASA-CASE-GSC-10366-1] c 10 N71-18772

Serial digital decoder Patent
[NASA-CASE-NPO-10150] c 08 N71-24650

BCD to decimal decoder Patent
[NASA-CASE-XKS-06167] c 08 N71-24890

Current steering switch Patent
[NASA-CASE-XNP-08567] c 09 N71-26000

Parallel generation of the check bits of a PN sequence Patent
[NASA-CASE-XNP-04623] c 10 N71-26103

Adaptive system and method for signal generation Patent
[NASA-CASE-GSC-11367] c 10 N71-26374

Fast response low power drain logic circuits
[NASA-CASE-GSC-10878-1] c 10 N72-22236

Logical function generator
[NASA-CASE-XLA-05099] c 09 N73-13209

A synchronous binary array divider
[NASA-CASE-ERC-10180-1] c 60 N74-20836

Four phase logic systems --- including integrated microcircuits
[NASA-CASE-MSC-14240-1] c 33 N75-14957

A general logic structure for custom LSI circuits
[NASA-CASE-NPO-14410-1] c 33 N79-25314

Interleaving device
[NASA-CASE-GSC-12111-2] c 33 N81-29342

Logic-controlled occlusive cuff system
[NASA-CASE-MSC-14836-1] c 52 N82-11770

General logic structure for custom LSI circuits
[NASA-CASE-NPO-14410-2] c 33 N82-25440

Combinational logic for generating gate drive signals for phase control rectifiers
[NASA-CASE-MFS-25208-1] c 33 N83-10345

Adaptive reference voltage generator for firing angle control of line-commutated inverters
[NASA-CASE-MFS-25215-1] c 33 N83-31953

Adaptive control system for line-commutated inverters
[NASA-CASE-MFS-25209-1] c 33 N83-35227

Video processor for air traffic control beacon system
[NASA-CASE-KSC-11155-1] c 33 N84-15395

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Elastomer toughened polyimide adhesives
[NASA-CASE-LAR-12775] c 27 N83-29390

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Three-axis controller Patent
[NASA-CASE-XAC-01404] c 05 N70-41581

Pitch attitude stabilization system utilizing engine pressure ratio feedback signals
[NASA-CASE-LAR-12562-1] c 08 N81-26152

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Annular wing
[NASA-CASE-FRC-11007-2] c 05 N82-26277

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Method and apparatus for contour mapping using synthetic aperture radar
[NASA-CASE-NPO-15939-1] c 43 N83-20324

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Collapsible loop antenna for space vehicle Patent
[NASA-CASE-XMF-00437] c 07 N70-40202

Automatic carrier acquisition system
[NASA-CASE-NPO-11628-1] c 07 N73-30113

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Endless tape cartridge Patent
[NASA-CASE-XGS-00769] c 14 N70-41647

Endless tape transport mechanism Patent
[NASA-CASE-XGS-01223] c 07 N71-10609

Filter for third order phase locked loops
[NASA-CASE-NPO-11941-1] c 10 N73-27171

High speed shutter --- electrically actuated ribbon loop for shuttering optical or fluid passageways
[NASA-CASE-ARC-10516-1] c 70 N74-21300

Means for accommodating large overstrain in lead wires --- by storing extra length of wire in stretchable loop
[NASA-CASE-LAR-10168-1] c 33 N74-22865

Closed loop spray cooling apparatus
[NASA-CASE-LEW-11981-2] c 34 N79-20336

Pseudonoise code tracking loop
[NASA-CASE-MSC-18035-1] c 32 N81-15179

Pulsed phase locked loop strain monitor --- voltage controlled oscillators
[NASA-CASE-LAR-12772-1] c 33 N83-16626

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Solar concentrator protective system
[NASA-CASE-NPO-15662-1] c 44 N82-28785

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Landing arrangement for aerial vehicles Patent
[NASA-CASE-XLA-00142] c 02 N70-33286

Landing arrangement for aerial vehicle Patent
[NASA-CASE-XLA-00806] c 02 N70-34858

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Fabrication of polycrystalline solar cells on low-cost substrates
[NASA-CASE-GSC-12022-1] c 44 N76-28635

Process for utilizing low-cost graphite substrates for polycrystalline solar cells
[NASA-CASE-GSC-12022-2] c 44 N78-24609

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Low current linearization of magnetic amplifier for dc transducer
[NASA-CASE-NPO-14617-1] c 33 N81-24338

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Method and device for detecting voids in low density material Patent
[NASA-CASE-MFS-20044] c 14 N71-28993

Intumescent composition, foamed product prepared therewith and process for making same
[NASA-CASE-ARC-10304-2] c 27 N74-27037

Mixing insert for foam dispensing apparatus
[NASA-CASE-MFS-20607-1] c 37 N76-19436

Low density bismaleimide-carbon microballoon composites --- aircraft and submarine compartment safety
[NASA-CASE-ARC-11040-2] c 24 N78-27184

Low density bismaleimide-carbon microballoon composites
[NASA-CASE-ARC-11040-1] c 24 N79-16915

Catalysts for polyimide foams from aromatic isocyanates and aromatic dianhydrides --- flame retardant foams
[NASA-CASE-ARC-11107-1] c 25 N80-16116

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Seismic displacement transducer Patent
[NASA-CASE-XMF-00479] c 14 N70-34794

Low-frequency radio navigation system
[NASA-CASE-NPO-15264-1] c 04 N81-22036

LOW GRAVITY MANUFACTURING

Method for manufacturing mirrors in zero gravity environment
[NASA-CASE-MSC-12611-1] c 12 N76-15189

Gas levitator having fixed levitation node for containerless processing
[NASA-CASE-MFS-25509-1] c 35 N83-24828

Method and apparatus for supercooling and solidifying substances
[NASA-CASE-MFS-25242-1] c 35 N83-29650

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Process for preparation of high-molecular-weight polyaryloxysilanes Patent
[NASA-CASE-XMF-08674] c 06 N71-28807

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Low phase noise digital frequency divider
[NASA-CASE-NPO-11569] c 10 N73-26229

Reflected-wave maser --- low noise amplifier
[NASA-CASE-NPO-13490-1] c 36 N76-31512

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Filtering technique based on high-frequency plant modeling for high-gain control
[NASA-CASE-LAR-12215-1] c 08 N79-23097

Smoothing filter for digital to analog conversion
[NASA-CASE-FRC-11025-1] c 33 N82-24417

Discriminator aided phase lock acquisition for suppressed carrier signals
[NASA-CASE-NPO-14311-1] c 33 N82-29539

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[NASA-CASE-NPO-14324-1] c 72 N80-27163
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[NASA-CASE-NPO-15706-1] c 35 N82-26633
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- Image magnification adapter for cameras Patent
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[NASA-CASE-LAR-10496-1] c 14 N72-22437
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[NASA-CASE-GSC-12010-1] c 74 N78-18905
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- Balance torquemeter Patent
[NASA-CASE-XGS-01013] c 14 N71-23725

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- Self-testing and repairing computer Patent
[NASA-CASE-NPO-10567] c 08 N71-24633
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[NASA-CASE-LAR-10416-1] c 24 N74-30001
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[NASA-CASE-FRC-11042-1] c 60 N82-24839
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[NASA-CASE-MS-18736-1] c 24 N83-13172

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- Airplane take-off performance indicator Patent
[NASA-CASE-XLA-00100] c 14 N70-36807

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- Mandrel for shaping solid propellant rocket fuel into a motor casing Patent
[NASA-CASE-XLA-00304] c 27 N70-34783
Rotating mandrel for assembly of inflatable devices
[NASA-CASE-XLA-04143] c 15 N71-17687
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[NASA-CASE-XLA-04126] c 28 N71-26779

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- Sequentially deployable maneuverable tetrahedral beam
[NASA-CASE-LAR-13098-1] c 31 N83-35178

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- Manganese bismuth films with narrow transfer characteristics for Curie-point switching
[NASA-CASE-NPO-11336-1] c 76 N79-16678

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- Injector for bipropellant rocket engines Patent
[NASA-CASE-XMF-00148] c 28 N70-38710
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[NASA-CASE-LEW-12938-1] c 07 N82-32366
Collimated beam manifold with the number of output beams variable at a given output angle
[NASA-CASE-MFS-25312-1] c 74 N83-17305

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- Remote control manipulator for zero gravity environment
[NASA-CASE-MFS-14405] c 15 N72-28495
Orthotic arm joint --- for use in mechanical arms
[NASA-CASE-MFS-21611-1] c 54 N75-12616
Variable ratio mixed-mode bilateral master-slave control system for shuttle remote manipulator system
[NASA-CASE-MS-12425-1] c 18 N75-27041
Cooperative multiaxis sensor for teleoperation of article manipulating apparatus
[NASA-CASE-NPO-13386-1] c 54 N75-27758
Remotely operable articulated manipulator
[NASA-CASE-MFS-22707-1] c 37 N76-15457
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[NASA-CASE-ARC-10756-1] c 54 N77-32721
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Terminal guidance sensor system
[NASA-CASE-NPO-14521-1] c 54 N79-20746
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[NASA-CASE-NPO-13906-1] c 54 N79-24652
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[NASA-CASE-ARC-11052-1] c 37 N79-28551
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- Rotating space station simulator Patent
[NASA-CASE-XLA-03127] c 11 N71-10776

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- Erectable modular space station Patent
[NASA-CASE-XLA-00678] c 31 N70-34296
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- Transfer valve Patent
[NASA-CASE-XAC-01158] c 15 N71-23051
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[NASA-CASE-XLA-8914] c 15 N73-12492

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- Space capsule Patent
[NASA-CASE-XLA-00149] c 31 N70-37938
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[NASA-CASE-XLA-00241] c 31 N70-37986
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[NASA-CASE-XLA-00195] c 02 N70-38009
Space capsule Patent
[NASA-CASE-XLA-01332] c 31 N71-15664
Artificial gravity spin deployment system Patent
[NASA-CASE-XNP-02595] c 31 N71-21881
Specialized halogen generator for purification of water
[NASA-CASE-XLA-08913] c 14 N71-28933
Collapsible Apollo couch
[NASA-CASE-MS-13140] c 05 N72-11085

- Space vehicle with artificial gravity and earth-like environment
[NASA-CASE-LEW-11101-1] c 31 N73-32750

MANOMETERS

- Magnetically centered liquid column float Patent
[NASA-CASE-XAC-00030] c 14 N70-34820
Apparatus for absolute pressure measurement
[NASA-CASE-LAR-10000] c 14 N73-30394

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- Multiple circuit switch apparatus with improved pivot actuator structure Patent
[NASA-CASE-XAC-03777] c 10 N71-15909
Null device for hand controller Patent
[NASA-CASE-XLA-01808] c 15 N71-20740
Manually actuated heat pump
[NASA-CASE-NPO-10677] c 05 N72-11084
Numerical computer peripheral interactive device with manual controls
[NASA-CASE-NPO-11497] c 08 N73-25206
Solid state controller three axes controller
[NASA-CASE-MS-12394-1] c 08 N74-10942
G-load measuring and indicator apparatus
[NASA-CASE-ARC-10806-1] c 35 N75-29381
Hydraulic actuator mechanism to control aircraft spoiler movements through dual input commands
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- A method for selective gold diffusion of monolithic silicon devices and/or circuits Patent application
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[NASA-CASE-MFS-20410] c 15 N71-19214
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[NASA-CASE-NPO-13205-1] c 31 N74-32917
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[NASA-CASE-LAR-10337-1] c 24 N75-30260
Process for fabricating SiC semiconductor devices
[NASA-CASE-LEW-12094-1] c 76 N76-25049
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[NASA-CASE-LAR-11361-1] c 44 N77-22607
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[NASA-CASE-ARC-10900-1] c 35 N77-24454
Aluminum or copper substrate panel for selective absorption of solar energy
[NASA-CASE-MFS-23518-3] c 44 N80-16452
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[NASA-CASE-NPO-11001] c 07 N72-21118
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[NASA-CASE-NPO-15939-1] c 43 N83-20324
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- Reflected-wave maser --- low noise amplifier
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- Multistation refrigeration system
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- External bulb variable volume maser
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- Dielectric-loaded waveguide circulator for cryogenically cooled and cascaded maser waveguide structures
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- Masking device Patent
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- Dynamic vibration absorber Patent
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- Fluid mass sensor for a zero gravity environment
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- Apparatus for testing a pressure responsive instrument Patent
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- Rocket engine injector Patent
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- Nuclear mass flowmeter
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- Apparatus and method for generating large mass flow of high temperature air at hypersonic speeds
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 - Time of flight mass spectrometer with feedback means from the detector to the low source and a specific counter Patent
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 - Ion microprobe mass spectrometer for analyzing fluid materials Patent
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 - Quadrupole mass filter with means to generate a noise spectrum exclusive of the resonant frequency of the desired ions to deflect stable ions
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- Fluid coupling Patent
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- Apparatus for purging systems handling toxic, corrosive, noxious and other fluids Patent
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- Apparatus for recovering matter adhered to a host surface
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- Apparatus for inserting and removing specimens from high temperature vacuum furnaces
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- Process for the leaching of AP from propellant
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- Recovery of aluminum from composite propellants
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- Flammability test chamber Patent
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- Apparatus and method for measuring the Seebeck coefficient and resistivity of materials
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- Thermal shock apparatus Patent
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- Multiple environment materials test chamber having a multiple port X-ray tube for irradiating a plurality of samples Patent
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- Resilience testing device Patent
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- Magnetic matrix memory system Patent
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- Solar cell matrix Patent
[NASA-CASE-NPO-10821] c 03 N71-19545
- Drive circuit utilizing two cores Patent
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- Serial digital decoder Patent
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MEASURING INSTRUMENTS

- Device for determining the accuracy of the flare on a flared tube
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- Angular measurement system Patent
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- Parallel motion suspension device Patent
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- Ablation sensor Patent
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[NASA-CASE-XMF-10289] c 14 N71-23699
- Floating two force component measuring device Patent
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- Internal flare angle gauge Patent
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- RC rate generator for slow speed measurement Patent
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- Transverse piezoresistance and pinch effect electromechanical transducers Patent
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- Resonant infrasonic gauging apparatus
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- Roll alignment detector
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[NASA-CASE-XLA-01401] c 15 N71-21179
- Canister closing device Patent
[NASA-CASE-XLA-01446] c 15 N71-21528
- Nonmagnetic, explosive actuated indexing device Patent
[NASA-CASE-XGS-02422] c 15 N71-21529
- Central spar and module joint Patent
[NASA-CASE-XNP-02341] c 15 N71-21531
- Controllers Patent
[NASA-CASE-XMS-07487] c 15 N71-23255
- Alloys for bearings Patent
[NASA-CASE-XLE-05033] c 15 N71-23810
- Mechanical actuator Patent
[NASA-CASE-XGS-04548] c 15 N71-24045
- Winch having cable position and load indicators Patent
[NASA-CASE-MSC-12052-1] c 15 N71-24599
- Redundant actuating mechanism Patent
[NASA-CASE-XGS-08718] c 15 N71-24600
- Shock tube powder dispersing apparatus Patent
[NASA-CASE-XLE-04946] c 17 N71-24911
- Self-lubricating gears and other mechanical parts Patent
[NASA-CASE-MFS-14971] c 15 N71-24984
- Layout tool Patent
[NASA-CASE-FRC-10005] c 15 N71-26145
- Thermostatic actuator
[NASA-CASE-NPO-10637] c 15 N72-12409
- Ball screw linear actuator
[NASA-CASE-NPO-11222] c 15 N72-25456
- Spherical measurement device
[NASA-CASE-XLA-06683] c 14 N72-28436
- Thermal compensating structural member
[NASA-CASE-MFS-20433] c 15 N72-28496
- Spiral groove seal
[NASA-CASE-XLE-10326-2] c 15 N72-29488
- Solar energy powered heliotrope
[NASA-CASE-GSC-10945-1] c 21 N72-31637
- Adjustable force probe
[NASA-CASE-MFS-20760] c 14 N72-33377
- Rotary actuator
[NASA-CASE-NPO-10680] c 31 N73-14855
- Collapsible structure for an antenna reflector
[NASA-CASE-NPO-11751] c 07 N73-24176
- Foot pedal operated fluid type exercising device
[NASA-CASE-MSC-11561-1] c 05 N73-32014
- Exposure interlock for oscilloscope cameras
[NASA-CASE-LAR-10319-1] c 14 N73-32322
- Reeling system
[NASA-CASE-LAR-10129-2] c 37 N74-20063
- Sprag solenoid brake --- development and operations of electrically controlled brake
[NASA-CASE-MFS-21846-1] c 37 N74-26976
- Solid medium thermal engine
[NASA-CASE-ARC-10461-1] c 44 N74-33379
- Automatic inoculating apparatus --- includes movable carriage, drive motor, and swabbing motor
[NASA-CASE-LAR-11074-1] c 51 N75-13502
- Clock setter
[NASA-CASE-LAR-11458-1] c 35 N76-16392
- Apparatus for positioning modular components on a vertical or overhead surface
[NASA-CASE-LAR-11465-1] c 37 N76-21554
- Reel safety brake
[NASA-CASE-GSC-11960-1] c 37 N77-14479
- Mechanical sequencer
[NASA-CASE-MSC-19536-1] c 37 N77-22482
- Combined docking and grasping device
[NASA-CASE-MFS-23088-1] c 37 N77-23483
- Wrist joint assembly
[NASA-CASE-MFS-23311-1] c 54 N78-17676
- Tetherline system for orbiting satellites
[NASA-CASE-MFS-23564-1] c 15 N78-25119
- Actuator mechanism
[NASA-CASE-GSC-11883-2] c 37 N78-31426
- Quartz ball valve
[NASA-CASE-NPO-14473-1] c 37 N80-23654
- Method and apparatus for holding two separate metal pieces together for welding
[NASA-CASE-GSC-12318-1] c 37 N80-23655
- Heat treat fixture and method of heat treating
[NASA-CASE-LAR-11821-1] c 26 N80-28492
- Fire extinguishing apparatus having a slidable mass for a penetrator nozzle --- for penetrating aircraft and shuttle orbiter skin
[NASA-CASE-KSC-11064-1] c 31 N81-14137
- Device for coupling a first vehicle to a second vehicle
[NASA-CASE-GSC-12429-1] c 37 N81-14320
- Locking mechanism for orthopedic braces
[NASA-CASE-GSC-12082-2] c 52 N81-25661
- Reusable captive blind fastener
[NASA-CASE-MSC-18742-1] c 37 N82-26673
- Self-locking mechanical center joint --- for space construction
[NASA-CASE-LAR-12864-1] c 37 N82-29606
- Mechanical end joint system for structural column elements
[NASA-CASE-LAR-12482-1] c 37 N82-32732
- Method and apparatus for gripping uniaxial fibrous composite materials --- holding specimens for mechanical property testing
[NASA-CASE-LEW-13758-1] c 24 N83-12176
- Compression test apparatus
[NASA-CASE-MSC-18723-1] c 35 N83-21312
- Apparatus for accurately preloading auger attachment means for frangible protective material
[NASA-CASE-MSC-18791-1] c 37 N83-36482
- Mechanical fastener
[NASA-CASE-LAR-12738-2] c 18 N84-15180
- Clamp-mount device
[NASA-CASE-MFS-25510-1] c 37 N84-16560
- Tensile testing apparatus
[NASA-CASE-LAR-13243-1] c 35 N84-20804
- Self-indexing latch system
[NASA-CASE-MFS-25956-1] c 37 N84-20860
- MECHANICAL DRIVES**
- Hydraulic drive mechanism Patent
[NASA-CASE-XMS-03252] c 15 N71-10658
- Anti-backlash circuit for hydraulic drive system Patent
[NASA-CASE-XNP-01020] c 03 N71-12260
- Precision stepping drive Patent
[NASA-CASE-MFS-14772] c 15 N71-17692
- Incremental motion drive system Patent
[NASA-CASE-XNP-08897] c 15 N71-17694
- Ratchet mechanism Patent
[NASA-CASE-MFS-12805] c 15 N71-17805
- Welding skate with computerized control Patent
[NASA-CASE-XMF-07069] c 15 N71-23815
- Reversible motion drive system Patent
[NASA-CASE-NPO-10173] c 15 N71-24696
- Synchronous dc direct drive system Patent
[NASA-CASE-GSC-10065-1] c 10 N71-27136
- Energy absorption device Patent
[NASA-CASE-XNP-01848] c 15 N71-28959
- Boring bar drive mechanism Patent
[NASA-CASE-XLA-03661] c 15 N71-33518
- Rotary actuator
[NASA-CASE-NPO-10244] c 15 N72-26371
- Rotary actuator
[NASA-CASE-NPO-10680] c 31 N73-14855
- Optically actuated two position mechanical mover
[NASA-CASE-NPO-13105-1] c 37 N74-21060
- Two speed drive system --- mechanical device for changing speed on rotating vehicle wheel
[NASA-CASE-MFS-20645-1] c 37 N74-23070
- Concentric differential gearing arrangement
[NASA-CASE-ARC-10462-1] c 37 N74-27901
- Geneva mechanism --- including star wheel and driver
[NASA-CASE-NPO-13281-1] c 37 N75-13266
- Mechanical thermal motor
[NASA-CASE-MFS-23062-1] c 37 N77-12402
- Mount for continuously orienting a collector dish in a system adapted to perform both diurnal and seasonal solar tracking
[NASA-CASE-MFS-23267-1] c 35 N77-20401
- Hydraulic drain means for servo-systems
[NASA-CASE-NPO-10316-1] c 37 N77-22479
- Mechanical sequencer
[NASA-CASE-MSC-19536-1] c 37 N77-22482
- Gas turbine engine with convertible accessories
[NASA-CASE-LEW-12390-1] c 07 N78-17056
- Wobble gear drive mechanism --- for aerospace environments
[NASA-CASE-WOO-00625] c 37 N78-17385
- Toggle mechanism for pinching metal tubes
[NASA-CASE-GSC-12274-1] c 37 N79-28550
- Antenna deployment mechanism for use with a spacecraft --- extensible and retractable telescopic antenna mast
[NASA-CASE-GSC-12331-1] c 18 N80-14183
- Redundant motor drive system
[NASA-CASE-MFS-23777-1] c 37 N80-32716
- Belt for transmitting power from a cogged driving member to a cogged driven member
[NASA-CASE-GSC-12289-1] c 37 N80-32717
- Base drive for paralleled inverter systems
[NASA-CASE-NPO-14163-1] c 33 N81-14220
- Speed control device for a heavy duty shaft --- solar sails for spacecraft propulsion
[NASA-CASE-NPO-14170-1] c 37 N81-15364
- Clutchless multiple drive source for output shaft
[NASA-CASE-ARC-11325-1] c 37 N82-22496
- Electrical rotary joint apparatus for large space structures
[NASA-CASE-MFS-23981-1] c 07 N83-20944
- Variable speed drive
[NASA-CASE-GSC-12643-1] c 37 N83-26078
- MECHANICAL ENGINEERING**
- Manual actuator --- for spacecraft exercising machines
[NASA-CASE-MFS-21481-1] c 37 N74-18127
- Shaft seal assembly for high speed and high pressure applications
[NASA-CASE-LEW-11873-1] c 37 N79-22475
- MECHANICAL MEASUREMENT**
- Strain gage Patent Application
[NASA-CASE-FRC-10053] c 14 N70-35587
- Apparatus for absorbing and measuring power Patent
[NASA-CASE-XLE-00720] c 14 N70-40201
- Strain sensor for high temperatures Patent
[NASA-CASE-XNP-09205] c 14 N71-17657
- Extensometer Patent
[NASA-CASE-XMF-04680] c 15 N71-19489
- Hall effect transducer
[NASA-CASE-LAR-10620-1] c 09 N72-25255

- Strain gage mounting assembly
[NASA-CASE-NPO-13170-1] c 35 N76-14430
- Photomechanical transducer
[NASA-CASE-NPO-14363-1] c 39 N81-25400
- Cervix-to-rectum measuring device in a radiation applicator for use in the treatment of cervical cancer
[NASA-CASE-GSC-12081-2] c 52 N82-22875
- MECHANICAL PROPERTIES**
- High temperature testing apparatus Patent
[NASA-CASE-XLE-00335] c 14 N70-35368
- Fluoroether modified epoxy composites
[NASA-CASE-ARC-11418-1] c 24 N84-11213
- MECHANICS (PHYSICS)**
- Gravity stabilized flying vehicle Patent
[NASA-CASE-MSC-12111-1] c 02 N71-11039
- MECHANIZATION**
- Machine for use in monitoring fatigue life for a plurality of elastomeric specimens
[NASA-CASE-NPO-13731-1] c 39 N78-10493
- MEDICAL ELECTRONICS**
- Circuit for detecting initial systole and diastolic notch --- for monitoring arterial pressure
[NASA-CASE-LEW-11511-1] c 54 N75-13531
- Pocket ECG electrode
[NASA-CASE-ARC-11258-1] c 52 N80-33081
- Subcutaneous electrode structure
[NASA-CASE-ARC-11117-1] c 52 N81-14612
- MEDICAL EQUIPMENT**
- Biomedical electrode arrangement Patent
[NASA-CASE-XFR-10856] c 05 N71-11189
- Method and system for respiration analysis Patent
[NASA-CASE-XFR-08403] c 05 N71-11202
- Laser machining apparatus Patent
[NASA-CASE-HQN-10541-2] c 15 N71-27135
- Telemetry actuated switch
[NASA-CASE-ARC-10105] c 09 N72-17153
- Tilting table for ergometer and for other biomedical devices
[NASA-CASE-MFS-21010-1] c 05 N73-30078
- Automatic instrument for chemical processing to detect microorganism in biological samples by measuring light reactions
[NASA-CASE-GSC-11169-2] c 05 N73-32011
- Servo-controlled intravital microscope system
[NASA-CASE-NPO-13214-1] c 35 N75-25123
- Heat sterilizable patient ventilator
[NASA-CASE-NPO-13313-1] c 54 N75-27761
- Medical subject monitoring systems --- multichannel monitoring systems
[NASA-CASE-MSC-14180-1] c 52 N76-14757
- Locking mechanism for orthopedic braces
[NASA-CASE-GSC-12082-1] c 54 N76-22914
- Readout electrode assembly for measuring biological impedance
[NASA-CASE-ARC-10816-1] c 35 N76-24525
- Corneal seal device
[NASA-CASE-LEW-12258-1] c 52 N77-28716
- Snap-in compressible biomedical electrode
[NASA-CASE-MSC-14623-1] c 52 N77-28717
- Tissue macerating instrument
[NASA-CASE-LEW-12668-1] c 52 N78-14773
- Flow compensating pressure regulator
[NASA-CASE-LEW-12718-1] c 34 N78-25351
- Intra-ocular pressure normalization technique and equipment
[NASA-CASE-LEW-12723-1] c 52 N80-18690
- Micro-fluid exchange coupling apparatus
[NASA-CASE-ARC-11114-1] c 51 N81-14605
- Urine collection device
[NASA-CASE-MSC-16433-1] c 52 N81-24711
- Spine immobilization apparatus
[NASA-CASE-ARC-11167-1] c 52 N81-25662
- Low X-ray absorption aneurism clips
[NASA-CASE-LAR-12650-1] c 52 N81-29768
- Cervix-to-rectum measuring device in a radiation applicator for use in the treatment of cervical cancer
[NASA-CASE-GSC-12081-2] c 52 N82-22875
- Acoustic tooth cleaner
[NASA-CASE-LAR-12471-1] c 52 N82-29862
- Ion beam sputter-etched ventricular catheter for hydrocephalus shunt
[NASA-CASE-LEW-13107-1] c 52 N83-21785
- System and method for moving a probe to follow movements of tissue
[NASA-CASE-NPO-15197-1] c 52 N83-25346
- Low X-ray absorption aneurism clips
[NASA-CASE-LAR-12650-2] c 52 N84-15764
- MELTING**
- Induction heating gun
[NASA-CASE-LAR-13181-1] c 33 N83-29591
- Hot melt adhesive attachment pad
[NASA-CASE-LAR-12894-1] c 27 N83-34044
- Hot melt recharge system --- repairing damaged or missing tiles on space shuttle orbiter
[NASA-CASE-LAR-12881-1] c 27 N84-14323
- Hot melt recharge system --- space maintenance
[NASA-CASE-LAR-12881-2] c 27 N84-15271
- MELTING POINTS**
- Mixed diamines for lower melting addition polyimide preparation and utilization
[NASA-CASE-LAR-12054-1] c 27 N79-33316
- Low thrust monopropellant engine
[NASA-CASE-GSC-12194-2] c 20 N82-18314
- MELTS (CRYSTAL GROWTH)**
- Growth of silicon carbide crystals on a seed while pulling silicon crystals from a melt
[NASA-CASE-NPO-13969-1] c 76 N79-23798
- Preparation of monotectic alloys having a controlled microstructure by directional solidification under dopant-induced interface breakdown
[NASA-CASE-MFS-23816-1] c 26 N80-23419
- Means for growing ribbon crystals without subjecting the crystals to thermal shock-induced strains
[NASA-CASE-NPO-14298-1] c 76 N80-32244
- Apparatus for use in the production of ribbon-shaped crystals from a silicon melt
[NASA-CASE-NPO-14297-1] c 33 N81-19389
- Electromigration process for the purification of molten silicon during crystal growth
[NASA-CASE-NPO-14831-1] c 76 N82-30105
- Total immersion crystal growth --- using a melt covered with an encapsulating fluid
[NASA-CASE-NPO-15800-1] c 76 N83-15149
- Controlled in situ etch-back
[NASA-CASE-NPO-15625-1] c 76 N83-20789
- Apparatus and method for heating a material in a transparent ampoule --- crystal growth
[NASA-CASE-MFS-25436-1] c 27 N83-36220
- High-temperature, high-pressure optical cell
[NASA-CASE-MFS-26000-1] c 74 N84-16986
- MEMBRANE STRUCTURES**
- Liquid junction and method of fabricating the same Patent Application
[NASA-CASE-NPO-10682] c 15 N70-34699
- Measuring device Patent
[NASA-CASE-XMS-01546] c 14 N70-40233
- Flexible composite membrane Patent
[NASA-CASE-XNP-08837] c 18 N71-16210
- Fluid impervious barrier including liquid metal alloy and method of making same Patent
[NASA-CASE-XNP-08881] c 17 N71-28747
- Meteoroid capture cell construction
[NASA-CASE-MSC-12423-1] c 91 N76-30131
- Strong thin membrane structure --- solar sails
[NASA-CASE-NPO-14021-2] c 27 N80-16163
- In-situ cross linking of polyvinyl alcohol --- application to battery separator films
[NASA-CASE-LEW-13135-2] c 27 N81-24257
- Separator for alkaline batteries and method of making same
[NASA-CASE-GSC-10350-1] c 44 N82-24642
- Separator for alkaline electric batteries and method of making
[NASA-CASE-GSC-10018-1] c 44 N82-24644
- MEMBRANES**
- Apparatus for measuring swelling characteristics of membranes
[NASA-CASE-XGS-03865] c 14 N69-21363
- Mixture separation cell Patent
[NASA-CASE-XMS-02952] c 18 N71-20742
- Ionene membrane separator
[NASA-CASE-NPO-11091] c 18 N72-22567
- Dual membrane hollow fiber fuel cell and method of operating same
[NASA-CASE-NPO-13732-1] c 44 N79-10513
- Microelectrophoretic apparatus and process
[NASA-CASE-ARC-11121-1] c 25 N79-14169
- Dialysis system --- using ion exchange resin membranes permeable to urea molecules
[NASA-CASE-NPO-14101-1] c 52 N80-14687
- Method of forming dynamic membrane on stainless steel support
[NASA-CASE-MSC-18172-1] c 26 N80-19237
- Reverse osmosis membrane of high urea rejection properties --- water purification
[NASA-CASE-ARC-10980-1] c 27 N80-23452
- Membrane consisting of polyquaternary amine ion exchange polymer network interpenetrating the chains of thermoplastic matrix polymer
[NASA-CASE-NPO-14001-1] c 27 N81-14076
- Asymmetric polyimide separation membrane and method
[NASA-CASE-NPO-15431-1] c 25 N81-29178
- Air removal device --- life support systems
[NASA-CASE-XLA-8914-2] c 25 N82-21269
- Process of treating cellulosic membrane and alkaline with membrane separator
[NASA-CASE-GSC-10019-1] c 44 N82-24641
- Method for the preparation of thin-skinned asymmetric reverse osmosis membranes and products thereof
[NASA-CASE-ARC-11359-1] c 27 N82-28444
- Aqueous alkali metal hydroxide insoluble cellulose ether membrane
[NASA-CASE-XGS-05584-1] c 25 N82-29370
- Optical fiber tactile sensor
[NASA-CASE-NPO-15375-1] c 74 N84-11921
- MEMORY**
- Method for making conductors for ferrite memory arrays --- from pre-formed metal conductors
[NASA-CASE-LAR-10994-1] c 24 N75-13032
- MERCURY (METAL)**
- Mercury capillary interrupter Patent
[NASA-CASE-XNP-02251] c 12 N71-20896
- Method of forming ceramic to metal seal Patent
[NASA-CASE-XNP-01263-2] c 15 N71-26312
- Feed system for an ion thruster
[NASA-CASE-NPO-10737] c 28 N72-11709
- MERCURY CADMIUM TELLURIDES**
- Method of preparing radially homogeneous mercury cadmium telluride crystals
[NASA-CASE-MFS-25786-1] c 76 N83-18533
- MERCURY VAPOR**
- Mercury capillary interrupter Patent
[NASA-CASE-XNP-02251] c 12 N71-20896
- Rotating shaft seal Patent
[NASA-CASE-XNP-02862-1] c 15 N71-26294
- METABOLIC WASTES**
- Cooling system for removing metabolic heat from an hermetically sealed spacesuit
[NASA-CASE-ARC-11059-1] c 54 N78-32721
- Method and automated apparatus for detecting coliform organisms
[NASA-CASE-MSC-16777-1] c 51 N80-27067
- METABOLISM**
- Automated analysis of oxidative metabolites
[NASA-CASE-ARC-10469-1] c 25 N75-12086
- Process for control of cell division
[NASA-CASE-LAR-10773-3] c 51 N77-25769
- Metabolic rate meter and method
[NASA-CASE-MSC-12239-1] c 52 N79-21750
- METAL BONDING**
- Bonding thermoelectric elements to nonmagnetic refractory metal electrodes
[NASA-CASE-XGS-04554] c 15 N69-39786
- Method of making a diffusion bonded refractory coating Patent
[NASA-CASE-XLE-01604-2] c 15 N71-15610
- Metal valve pintle with encapsulated elastomeric body Patent
[NASA-CASE-MSC-12116-1] c 15 N71-17648
- Apparatus for the determination of the existence or non-existence of a bonding between two members Patent
[NASA-CASE-MFS-13686] c 15 N71-18132
- Soldering with solder flux which leaves corrosion resistant coating Patent
[NASA-CASE-XNP-03459] c 15 N71-21078
- Bonded elastomeric seal for electrochemical cells Patent
[NASA-CASE-XGS-02631] c 03 N71-23006
- Silicon solar cell with cover glass bonded to cell by metal pattern Patent
[NASA-CASE-XLE-08569] c 03 N71-23449
- Positive contact resistance soldering unit
[NASA-CASE-KSC-10242] c 15 N72-23497
- Bonding or repairing process
[NASA-CASE-MSC-12357] c 15 N73-12489
- Totally confined explosive welding --- apparatus to reduce noise level and protect personnel during explosive bonding
[NASA-CASE-LAR-10941-1] c 37 N74-21057
- Ultrasonically bonded valve assembly
[NASA-CASE-NPO-13360-1] c 37 N75-25185
- Bimetallic junctions
[NASA-CASE-LEW-11573-1] c 26 N77-28265
- Heat exchanger and method of making --- bonding rocket chambers with a porous metal matrix
[NASA-CASE-LEW-12441-1] c 34 N79-13289
- Totally confined explosive welding
[NASA-CASE-LAR-10941-2] c 37 N79-13364
- Method and apparatus for holding two separate metal pieces together for welding
[NASA-CASE-GSC-12318-1] c 37 N80-23655
- Heat exchanger and method of making --- rocket lining
[NASA-CASE-LEW-12441-2] c 34 N80-24573
- Aluminum ion-containing polyimide adhesives
[NASA-CASE-LAR-12640-1] c 27 N82-11206
- X-ray determination of parts alignment
[NASA-CASE-MSC-20418-1] c 37 N83-17882
- Insulation bonding test system
[NASA-CASE-MFS-25662-1] c 27 N83-19903
- Thermal barrier coating system having improved adhesion
[NASA-CASE-LEW-1335901] c 27 N83-31855
- Improved thermal barrier coating system
[NASA-CASE-LEW-13324-2] c 26 N83-34014

- Method of coating a substrate with a rapidly solidified metal
[NASA-CASE-GSC-12880-1] c 26 N84-20670
- METAL COATINGS**
Method of joining aluminum to stainless steel Patent
[NASA-CASE-MFS-07369] c 15 N71-20443
Soldering with solder flux which leaves corrosion resistant coating Patent
[NASA-CASE-XNP-03459] c 15 N71-21078
Thermal control coating Patent
[NASA-CASE-XLA-01995] c 18 N71-23047
Trialkyl-dihalotantalum and niobium compounds Patent
[NASA-CASE-XNP-04023] c 06 N71-28808
Silicide coatings for refractory metals Patent
[NASA-CASE-XLE-10910] c 18 N71-29040
Selective nickel deposition
[NASA-CASE-LEW-10965-1] c 15 N72-25452
Wide temperature range electronic device with lead attachment
[NASA-CASE-ERC-10224-2] c 09 N73-27150
Panel for selectively absorbing solar thermal energy and the method of producing said panel
[NASA-CASE-MFS-22562-1] c 44 N76-14595
Ultraviolet light reflective coating
[NASA-CASE-GSC-11786-1] c 24 N76-24363
Metallic hot wire anemometer --- for high speed wind tunnel tests
[NASA-CASE-ARC-10911-1] c 35 N77-20400
Solar cell collector
[NASA-CASE-LEW-12552-1] c 44 N78-25527
Electromagnetic radiation energy arrangement --- coatings for solar energy absorption and infrared reflection
[NASA-CASE-WOO-00428-1] c 32 N79-19186
Improved thermal barrier coating system
[NASA-CASE-LEW-13324-1] c 26 N82-26431
Improved nickel base coating alloy --- oxidation resistant coatings
[NASA-CASE-LEW-13834-1] c 26 N83-24639
Electrodes for solid state devices
[NASA-CASE-NPO-15161-1] c 33 N84-16456
Method of coating a substrate with a rapidly solidified metal
[NASA-CASE-GSC-12880-1] c 26 N84-20670
- METAL CUTTING**
Metal shearing energy absorber
[NASA-CASE-HQN-10638-1] c 15 N73-30460
Vee-notching device --- with adjustable carriage
[NASA-CASE-MFS-20730-1] c 39 N74-13131
Hole cutter --- drill bits and rotating shaft
[NASA-CASE-MFS-22649-1] c 37 N75-25186
Method and tool for machining a transverse slot about a bore
[NASA-CASE-LAR-11855-1] c 37 N81-14319
- METAL FATIGUE**
Method for alleviating thermal stress damage in laminates
[NASA-CASE-LEW-12493-2] c 24 N81-26179
- METAL FIBERS**
Lightweight electrically-powered flexible thermal laminate --- made of metal and nonconductive yarns
[NASA-CASE-MSC-12662-1] c 33 N79-12331
- METAL FILMS**
Means and methods of depositing thin films on substrates Patent
[NASA-CASE-XNP-00595] c 15 N70-34967
Metallic film diffusion for boundary lubrication Patent
[NASA-CASE-XLE-01765] c 18 N71-10772
Bismuth-lead coatings for gas bearings used in atmospheric environments and vacuum chambers Patent
[NASA-CASE-XGS-02011] c 15 N71-20739
Metallic film diffusion for boundary lubrication Patent
[NASA-CASE-XLE-10337] c 15 N71-24046
Magnetic recording head and method of making same Patent
[NASA-CASE-GSC-10097-1] c 08 N71-27210
Light regulator
[NASA-CASE-LAR-10836-1] c 26 N72-27784
Deposition of alloy films --- on irregularly shaped metal object
[NASA-CASE-LEW-11262-1] c 27 N74-13270
Multitarget sequential sputtering apparatus
[NASA-CASE-NPO-13345-1] c 37 N75-19684
Method of forming metal hydride films
[NASA-CASE-LEW-12083-1] c 37 N78-13436
Thin film strain transducer --- for strain monitoring of high altitude balloons
[NASA-CASE-WLP-10055-1] c 35 N82-26632
- METAL FINISHING**
Selective plating of etched circuits without removing previous plating Patent
[NASA-CASE-XGS-03120] c 15 N71-24047
Surface finishing --- for aircraft wings
[NASA-CASE-MSC-12631-1] c 24 N77-28225

- METAL FOILS**
Folding apparatus Patent
[NASA-CASE-XLA-00137] c 15 N70-33180
Thermal control of space vehicles Patent
[NASA-CASE-XLA-01291] c 33 N70-36617
Thermal radiation shielding Patent
[NASA-CASE-XLE-03432] c 33 N71-24145
Method of making porous conductive supports for electrodes --- by electroforming and stacking nickel foils
[NASA-CASE-GSC-11367-1] c 44 N74-19692
Method and apparatus for tensile testing of metal foil
[NASA-CASE-LAR-10208-1] c 35 N76-18400
Process for preparing high temperature polyimide film laminates
[NASA-CASE-LAR-12742-1] c 24 N81-12174
Hot foil transducer skin friction sensor
[NASA-CASE-LAR-12321-1] c 35 N82-24470
Tensile testing apparatus
[NASA-CASE-LAR-13243-1] c 35 N84-20804
- METAL FUELS**
Preparing oxidizer coated metal fuel particles
[NASA-CASE-NPO-11975-1] c 28 N74-33209
- METAL HALIDES**
Process for making anhydrous metal halides
[NASA-CASE-LEW-11860-1] c 37 N76-18458
Direct current ballast circuit for metal halide lamp
[NASA-CASE-MSC-18407-1] c 33 N82-24427
High power metallic halide laser --- amplifying a copper chloride laser
[NASA-CASE-NPO-14782-1] c 36 N82-28616
Method and apparatus for convection control of metallic halide vapor density in a metallic halide laser
[NASA-CASE-NPO-15021-1] c 36 N83-10417
- METAL HYDRIDES**
Method of forming metal hydride films
[NASA-CASE-LEW-12083-1] c 37 N78-13436
- METAL IONS**
Metal containing polymers from cyclic tetrameric phenylphosphonitrimides Patent
[NASA-CASE-HQN-10364] c 06 N71-27363
Aluminum ion-containing polyimide adhesives
[NASA-CASE-LAR-12640-1] c 27 N82-11206
Process for improving moisture resistance of epoxy resins by addition of chromium ions
[NASA-CASE-LAR-13225-1] c 27 N84-20700
Process for improving moisture resistance of epoxy resins by addition of cobalt ions --- potential applications to composite matrix resins, adhesives, and casting resins for aerospace utilization
[NASA-CASE-LAR-13230-1] c 27 N84-20701
- METAL JOINTS**
Cryogenic connector for vacuum use Patent
[NASA-CASE-XGS-02441] c 15 N70-41629
Mechanical bonding of metal method
[NASA-CASE-LEW-12941-1] c 26 N83-10170
- METAL MATRIX COMPOSITES**
Reinforced metallic composites Patent
[NASA-CASE-XLE-02428] c 17 N70-33288
Process for producing dispersion strengthened nickel with aluminum Patent
[NASA-CASE-XLE-06969] c 17 N71-24142
Self-lubricating gears and other mechanical parts Patent
[NASA-CASE-MFS-14971] c 15 N71-24984
Refractory metal base alloy composites
[NASA-CASE-XLE-03940-2] c 17 N72-28536
Method of preparing graphite reinforced aluminum composite
[NASA-CASE-MFS-21077-1] c 24 N75-28135
Method of making reinforced composite structure
[NASA-CASE-LEW-12619-1] c 24 N77-19171
Heat exchanger and method of making --- bonding rocket chambers with a porous metal matrix
[NASA-CASE-LEW-12441-1] c 34 N79-13289
Preparation of monotectic alloys having a controlled microstructure by directional solidification under dopant-induced interface breakdown
[NASA-CASE-MFS-23816-1] c 26 N80-23419
Heat exchanger and method of making --- rocket lining
[NASA-CASE-LEW-12441-2] c 34 N80-24573
Method for alleviating thermal stress damage in laminates --- metal matrix composites
[NASA-CASE-LEW-12493-1] c 24 N81-17170
Method for alleviating thermal stress damage in laminates
[NASA-CASE-LEW-12493-2] c 24 N81-26179
Fuselage structure using advanced technology fiber reinforced composites
[NASA-CASE-LAR-11688-1] c 24 N82-26384
Method and apparatus for strengthening boron fibers --- high temperature oxidation
[NASA-CASE-LEW-13826-1] c 24 N82-26385
Metal matrix composite structural panel construction
[NASA-CASE-LAR-12807-1] c 24 N84-11214

- Arc spray fabrication of metal matrix composite monolayer --- high temperature fiber-reinforced superalloy composites
[NASA-CASE-LEW-13828-1] c 24 N84-15203
- METAL OXIDE SEMICONDUCTORS**
Gyrator employing field effect transistors
[NASA-CASE-MFS-21433] c 09 N73-20232
Radiation hardening of MOS devices by boron --- for stabilizing gate threshold potential of field effect device
[NASA-CASE-GSC-11425-1] c 76 N74-20329
Integrated P-channel MOS gyrator
[NASA-CASE-MFS-22343-1] c 33 N74-34638
Radiation hardening of MOS devices by boron --- for stabilizing gate threshold potential
[NASA-CASE-GSC-11425-2] c 76 N75-25730
Solar cell collector
[NASA-CASE-LEW-12552-1] c 44 N78-25527
Multilevel metallization method for fabricating a metal oxide semiconductor device
[NASA-CASE-MFS-23541-1] c 76 N79-14906
Method of making V-MOS field effect transistors utilizing a two-step anisotropic etching and ion implantation
[NASA-CASE-GSC-12515-1] c 33 N81-26360
Schottky barrier solar cell
[NASA-CASE-NPO-13689-2] c 44 N81-29525
Integrated photo-responsive metal oxide semiconductor circuit
[NASA-CASE-GSC-12782-1] c 33 N83-13360
GaAs Schottky barrier photo-responsive device and method of fabrication --- photovoltaic cells
[NASA-CASE-GSC-12816-1] c 76 N83-30268
High voltage v-groove solar cell
[NASA-CASE-LEW-13401-2] c 44 N83-32177
Laser activated MTOS microwave device
[NASA-CASE-NPO-16112-1] c 36 N84-12463
- METAL OXIDES**
Process for producing dispersion strengthened nickel with aluminum Patent
[NASA-CASE-XLE-06969] c 17 N71-24142
Photoetching of metal-oxide layers
[NASA-CASE-ERC-10108] c 06 N72-21094
Production of metal powders
[NASA-CASE-XLE-06461] c 17 N72-22530
Method for obtaining oxygen from lunar or similar soil
[NASA-CASE-MSC-12408-1] c 46 N74-13011
Method of forming dynamic membrane on stainless steel support
[NASA-CASE-MSC-18172-1] c 26 N80-19237
Method for depositing an oxide coating
[NASA-CASE-LEW-13131-1] c 44 N83-10494
Method of forming oxide coatings --- for solar collector heating panels
[NASA-CASE-LEW-13132-1] c 27 N83-29388
- METAL PARTICLES**
Slug flow magnetohydrodynamic generator
[NASA-CASE-XLE-02083] c 03 N69-39983
Method of making a cermet Patent
[NASA-CASE-LEW-10219-1] c 18 N71-28729
Preparing oxidizer coated metal fuel particles
[NASA-CASE-NPO-11975-1] c 28 N74-33209
- METAL PLATES**
Detector panels-micrometeoroid impact Patent
[NASA-CASE-XLA-05906] c 31 N71-16221
Nuclear fuel elements
[NASA-CASE-XLE-00209] c 22 N73-32528
Strain arrestor plate for fused silica tile --- bonding of thermal insulation to metallic plates or structural parts
[NASA-CASE-MSC-14182-1] c 27 N76-14264
Heat treat fixture and method of heat treating
[NASA-CASE-LAR-11821-1] c 26 N80-28492
- METAL POWDER**
Method of producing refractory bodies having controlled porosity Patent
[NASA-CASE-LEW-10393-1] c 17 N71-15468
Sealing member and combination thereof and method of producing said sealing member Patent
[NASA-CASE-XMS-01625] c 15 N71-23022
Shock tube powder dispersing apparatus Patent
[NASA-CASE-XLE-04946] c 17 N71-24911
Preparation of high purity copper fluoride
[NASA-CASE-LEW-10794-1] c 06 N72-17093
Production of metal powders
[NASA-CASE-XLE-06461] c 17 N72-22530
Apparatus for producing metal powders
[NASA-CASE-XLE-06461-2] c 17 N72-28535
Peen plating
[NASA-CASE-GSC-11163-1] c 15 N73-32360
Electrodes for solid state devices
[NASA-CASE-NPO-15161-1] c 33 N84-16456
- METAL SHEETS**
Light shield and infrared reflector for fatigue testing Patent
[NASA-CASE-XLA-01782] c 14 N71-26136
Method of making pressure tight seal for super alloy
[NASA-CASE-LAR-10170-1] c 37 N74-11301

- Method of making an explosively welded scarf joint
[NASA-CASE-LAR-11211-1] c 37 N75-12326
- Process for making sheets with parallel pores of uniform size
[NASA-CASE-GSC-10984-1] c 37 N75-26371
- Apparatus for welding sheet material --- butt joints
[NASA-CASE-XMS-01330] c 37 N75-27376
- Method of bonding plasticized elastomer to metal and articles produced thereby
[NASA-CASE-MFS-25181-1] c 27 N82-24340
- METAL SHELLS**
Shell tile thermal protection system
[NASA-CASE-LAR-12862-1] c 24 N83-17602
- METAL SPINNING**
Spin forming tubular elbows Patent
[NASA-CASE-XMF-01083] c 15 N71-22723
- METAL SPRAYING**
Arc spray fabrication of metal matrix composite monolayer --- high temperature fiber-reinforced superalloy composites
[NASA-CASE-LEW-13828-1] c 24 N84-15203
- Method of coating a substrate with a rapidly solidified metal
[NASA-CASE-GSC-12880-1] c 26 N84-20670
- METAL STRIPS**
Formed metal ribbon wrap Patent
[NASA-CASE-XLE-00164] c 15 N70-36411
- Interconnection of solar cells Patent
[NASA-CASE-XGS-01475] c 03 N71-11058
- Method of making tubes Patent
[NASA-CASE-XGS-04175] c 15 N71-18579
- High speed shutter --- electrically actuated ribbon loop for shuttering optical or fluid passageways
[NASA-CASE-ARC-10516-1] c 70 N74-21300
- METAL SURFACES**
Condenser - Separator
[NASA-CASE-XLA-08645] c 15 N69-21465
- Plating nickel on aluminum castings Patent
[NASA-CASE-XNP-04148] c 17 N71-24830
- Process for applying black coating to metals Patent
[NASA-CASE-XLA-06199] c 15 N71-24875
- Process for reducing secondary electron emission Patent
[NASA-CASE-XNP-09469] c 24 N71-25555
- Method of forming ceramic to metal seal Patent
[NASA-CASE-XNP-01263-2] c 15 N71-26312
- Temperature reducing coating for metals subject to flame exposure Patent
[NASA-CASE-XLE-00035] c 33 N71-29151
- Thin film gauge --- for measuring convective heat transfer rates along test surfaces in wind tunnels
[NASA-CASE-NPO-10617-1] c 35 N74-22095
- Surface finishing
[NASA-CASE-MSC-12631-3] c 27 N81-14077
- Improved refractory coatings --- sputtered coatings on substrates that form stable nitrides
[NASA-CASE-LEW-23169-2] c 26 N81-16209
- Method of cold welding using ion beam technology
[NASA-CASE-LEW-12982-1] c 37 N81-19455
- Corrosion resistant thermal barrier coating --- protecting gas turbines and other engine parts
[NASA-CASE-LEW-13088-1] c 26 N81-25188
- Overlay metallic-cermet alloy coating systems --- for gas turbine engines
[NASA-CASE-LEW-13639-1] c 27 N82-33522
- Coating with overlay metallic-cermet alloy systems
[NASA-CASE-LEW-13639-2] c 26 N83-17683
- METAL VAPOR LASERS**
High power metallic halide laser --- amplifying a copper chloride laser
[NASA-CASE-NPO-14782-1] c 36 N82-28616
- Method and apparatus for convection control of metallic halide vapor density in a metallic halide laser
[NASA-CASE-NPO-15021-1] c 36 N83-10417
- METAL VAPORS**
Slug flow magnetohydrodynamic generator
[NASA-CASE-XLE-02083] c 03 N69-39983
- Apparatus for making a metal slurry product Patent
[NASA-CASE-XLE-00010] c 15 N70-33382
- Inert gas metallic vapor laser
[NASA-CASE-NPO-13449-1] c 36 N75-32441
- Isotope separation using metallic vapor lasers
[NASA-CASE-NPO-13550-1] c 36 N77-26477
- METAL WORKING**
Electric arc welding Patent
[NASA-CASE-XMF-00392] c 15 N70-34814
- Method and apparatus for precision sizing and joining of large diameter tubes Patent
[NASA-CASE-XMF-05114] c 15 N71-17650
- Protective device for machine and metalworking tools Patent
[NASA-CASE-XLE-01092] c 15 N71-22797
- Portable milling tool Patent
[NASA-CASE-XMF-03511] c 15 N71-22799
- Extrusion die for refractory metals Patent
[NASA-CASE-XLE-06773] c 15 N71-23817
- Magnetomotive metal working device Patent
[NASA-CASE-XMF-03793] c 15 N71-24833
- Method and apparatus for precision sizing and joining of large diameter tubes Patent
[NASA-CASE-XMF-05114-3] c 15 N71-24865
- Insert facing tool --- manually operated cutting tool for forming studs in honeycomb material
[NASA-CASE-MFS-21485-1] c 37 N74-25968
- Apparatus for forming dished ion thruster grids
[NASA-CASE-LEW-11694-2] c 37 N76-14461
- Holding fixture for a hot stamping press
[NASA-CASE-GSC-12619-1] c 37 N84-12491
- Ultrasonic angle beam standard reflector
[NASA-CASE-LAR-13153-1] c 71 N84-21274
- METAL-METAL BONDING**
Method of joining aluminum to stainless steel Patent
[NASA-CASE-MFS-07369] c 15 N71-20443
- Honeycomb panel and method of making same Patent
[NASA-CASE-XMF-01402] c 18 N71-21651
- Capillary flow weld-bonding
[NASA-CASE-LAR-11726-1] c 37 N76-27568
- Method of cold welding using ion beam technology
[NASA-CASE-LEW-12982-1] c 37 N81-19455
- Mechanical bonding of metal method
[NASA-CASE-LEW-12941-1] c 26 N83-10170
- Joining lead wires to thin platinum alloy films
[NASA-CASE-LEW-13934-1] c 35 N83-35338
- METALLIC GLASSES**
Glass compositions with a high modulus of elasticity --- nontoxic glass fibers
[NASA-CASE-HQN-10274-1] c 27 N82-29451
- High modulus invert analog glass compositions containing beryllia
[NASA-CASE-HQN-10931-2] c 27 N82-29452
- METALLIZING**
Multilevel metallization method for fabricating a metal oxide semiconductor device
[NASA-CASE-MFS-23541-1] c 76 N79-14906
- Method of coating a substrate with a rapidly solidified metal
[NASA-CASE-GSC-12880-1] c 26 N84-20670
- METALLOGRAPHY**
Method for etching copper Patent
[NASA-CASE-XGS-06306] c 17 N71-16044
- METALLOSILOXANE POLYMER**
Thiophenyl ether disiloxanes and trisiloxanes useful as lubricant fluids
[NASA-CASE-MFS-22411-1] c 37 N74-21058
- METALLURGY**
Induction furnace with perforated tungsten foil shielding Patent
[NASA-CASE-XLE-04026] c 14 N71-23267
- Method of purifying metallurgical grade silicon employing reduced pressure atmospheric control
[NASA-CASE-NPO-14474-1] c 26 N80-14229
- METALS**
Transpiration cooled turbine blade manufactured from wires Patent
[NASA-CASE-XLE-00020] c 15 N70-33226
- Self-lubricating fluoride metal composite materials Patent
[NASA-CASE-XLE-08511] c 18 N71-23710
- Convoluting device for forming convolutions and the like Patent
[NASA-CASE-XNP-05297] c 15 N71-23811
- Forming tool for ribbon or wire
[NASA-CASE-XLA-05966] c 15 N72-12408
- Peen plating
[NASA-CASE-GSC-11163-1] c 15 N73-32360
- Glass-to-metal seals comprising relatively high expansion metals
[NASA-CASE-LEW-10698-1] c 37 N74-21063
- Scanning nozzle plating system --- for etching or plating metals on substrates without masking
[NASA-CASE-NPO-11758-1] c 31 N74-23065
- Production of pure metals
[NASA-CASE-LEW-10906-1] c 25 N74-30502
- Thermocouple tape --- developed from thermoelectrically different metals
[NASA-CASE-LEW-11072-2] c 35 N76-15434
- Method of forming shrink-fit compression seal
[NASA-CASE-LAR-11563-1] c 37 N77-23482
- Solar cells having integral collector grids
[NASA-CASE-LEW-12819-1] c 44 N79-11467
- Metal phthalocyanine polymers
[NASA-CASE-ARC-11405-1] c 27 N83-12239
- Phthalocyanine polymers
[NASA-CASE-ARC-11413-1] c 27 N83-14275
- Ultrasonic angle beam standard reflector
[NASA-CASE-LAR-13153-1] c 71 N84-21274
- METASTABLE STATE**
Stabilization of He2(a 3 Sigma u+ molecules in liquid helium by optical pumping for vacuum UV laser 6
[NASA-CASE-NPO-13993-1] c 72 N79-13826
- METEORITE COLLISIONS**
Pressurized panel
[NASA-CASE-XLA-08916-2] c 14 N73-28487
- Method of and device for determining the characteristics and flux distribution of micrometeorites --- scanning puncture holes in sheet material with photoelectric cell
[NASA-CASE-NPO-12127-1] c 91 N74-13130
- METEORITES**
Method of making pressurized panel Patent
[NASA-CASE-XLA-08916] c 15 N71-29018
- METEORITIC DAMAGE**
Meteoroid sensing apparatus having a coincidence network connected to a pair of capacitors Patent
[NASA-CASE-XLE-01246] c 14 N71-10797
- METEOROID HAZARDS**
Meteoroid impact position locator aid for manned space station
[NASA-CASE-LAR-10629-1] c 35 N75-33367
- METEOROID PROTECTION**
Aerodynamic protection for space flight vehicles Patent
[NASA-CASE-XNP-02507] c 31 N71-17679
- METEOROLIDS**
Apparatus for photographing meteors
[NASA-CASE-LAR-10226-1] c 14 N73-19419
- Meteoroid capture cell construction
[NASA-CASE-MSC-12423-1] c 91 N76-30131
- METEOROLOGICAL BALLOONS**
Meteorological balloon Patent
[NASA-CASE-XMF-04163] c 02 N71-23007
- Thin film strain transducer --- in-flight monitoring of balloon film strain
[US-PATENT-APPL-SN-526770] c 35 N84-12448
- METHANATION**
Fluidized bed gasification of biomass to methane
[NASA-CASE-NPO-15903-1] c 44 N84-12635
- METHANE**
Gas lubricant compositions Patent
[NASA-CASE-XLE-00353] c 18 N70-39897
- Toughening reinforced epoxy composites with brominated polymeric additives
[NASA-CASE-ARC-11427-1] c 24 N83-25791
- Portable laser remote system for methane gas detection
[NASA-CASE-NPO-15790-1] c 36 N83-33137
- Fluidized bed gasification of biomass to methane
[NASA-CASE-NPO-15903-1] c 44 N84-12635
- Amine terminated bispartimides, process for preparation thereof, and polymers thereof
[NASA-CASE-ARC-11421-1] c 27 N84-16340
- METHYL ALCOHOLS**
Combustion engine system
[NASA-CASE-NPO-14565-2] c 25 N83-19826
- Supercritical multicomponent solvent coal extraction
[NASA-CASE-NPO-15767-1] c 23 N84-16255
- METHYL CHLOROSILANES**
Process for producing tris (N-methylamino) methylsilane
[NASA-CASE-MFS-25721-1] c 25 N83-25811
- METHYL COMPOUNDS**
Polymers of phosphonylmethyl-2,4- and -2,6-diamino benzenes and the like
[NASA-CASE-ARC-11506-1] c 27 N84-12313
- MICHELSON INTERFEROMETERS**
Interferometer direction sensor Patent
[NASA-CASE-NPO-10320] c 14 N71-17655
- Interferometer servo system Patent
[NASA-CASE-NPO-10300] c 14 N71-17662
- Multispectral imaging system
[NASA-CASE-MSC-12404-1] c 23 N73-13661
- Interferometer mirror tilt correcting system
[NASA-CASE-NPO-13687-1] c 35 N78-18391
- MICROANALYSIS**
Plural output optometric sample cell and analysis system
[NASA-CASE-NPO-10233-1] c 74 N78-33913
- MICROBALANCES**
Null-type vacuum microbalance Patent
[NASA-CASE-XAC-00472] c 15 N70-40180
- Microbalance --- for measuring particle mass
[NASA-CASE-MSC-11242] c 35 N78-17358
- MICROBALLOONS**
Method of forming frozen spheres in a force-free drop tower
[NASA-CASE-NPO-14845-1] c 27 N82-28442
- MICROBIOLOGY**
Variable angle tube holder
[NASA-CASE-LAR-10507-1] c 11 N72-25284
- Apparatus for microbiological sampling --- including automatic swabbing
[NASA-CASE-LAR-11069-1] c 35 N75-12272
- Automatic inoculating apparatus --- includes movable carriage, drive motor, and swabbing motor
[NASA-CASE-LAR-11074-1] c 51 N75-13502
- Automatic microbial transfer device
[NASA-CASE-LAR-11354-1] c 35 N75-27330

- Application of luciferase assay for ATP to antimicrobial drug susceptibility
[NASA-CASE-GSC-12039-1] c 51 N77-22794
- Electrochemical detection device — for use in microbiology
[NASA-CASE-LAR-11922-1] c 25 N79-24073
- Indirect microbial detection
[NASA-CASE-LAR-12520-1] c 51 N81-28698
- MICROCHANNELS**
Low intensity X-ray and gamma-ray spectrometer
[NASA-CASE-GSC-12587-1] c 35 N82-32659
- MICROCRACKS**
System for detecting substructure microfractures and method therefore
[NASA-CASE-NPO-14192-1] c 39 N80-10507
- Laser surface fusion of plasma sprayed ceramic turbine seals
[NASA-CASE-LEW-13269-1] c 18 N83-20996
- MICROELECTRONICS**
Apparatus and method for separating a semiconductor wafer Patent
[NASA-CASE-ERC-10138] c 26 N71-14354
- Vibrophonocardiograph Patent
[NASA-CASE-XFR-07172] c 05 N71-27234
- Microelectronic module package Patent
[NASA-CASE-XMS-02182] c 10 N71-28783
- Method of coating through-holes Patent
[NASA-CASE-XMF-05999] c 15 N71-29032
- Microcircuit negative cutter
[NASA-CASE-XLA-09843] c 15 N72-27485
- Screened circuit capacitors
[NASA-CASE-LAR-10294-1] c 26 N72-28762
- Active tuned circuit
[NASA-CASE-GSC-11340-1] c 10 N72-33230
- Automatic visual inspection system for microelectronics
[NASA-CASE-NPO-13282] c 38 N78-17396
- Inductorless narrow-band filter/amplifier
[NASA-CASE-GSC-12410-1] c 33 N79-24260
- Method and apparatus for fabricating improved solar cell modules
[NASA-CASE-NPO-14416-1] c 44 N81-14389
- Method of making a high voltage V-groove solar cell
[NASA-CASE-LEW-13401-1] c 44 N82-29709
- Method for sequentially processing a multi-level interconnect circuit in a vacuum chamber
[NASA-CASE-MFS-15670-1] c 33 N82-33634
- MICROFIBERS**
Small conductive particle sensor — microfiber size determination
[NASA-CASE-LAR-12552-1] c 35 N82-11431
- MICROFILMS**
Apparatus for inspecting microfilm Patent
[NASA-CASE-MFS-20240] c 14 N71-26788
- MICROINSTRUMENTATION**
Apparatus for handling micron size range particulate material
[NASA-CASE-NPO-10151] c 37 N78-17386
- MICROMETEORITES**
Method of and device for determining the characteristics and flux distribution of micrometeorites — scanning puncture holes in sheet material with photoelectric cell
[NASA-CASE-NPO-12127-1] c 91 N74-13130
- Micrometeoroid velocity and trajectory analyzer
[NASA-CASE-GSC-11892-1] c 35 N78-15433
- MICROMETEORITIDS**
Micrometeoroid velocity measuring device Patent
[NASA-CASE-XLA-00495] c 14 N70-41332
- Force transducer Patent
[NASA-CASE-XAC-01101] c 14 N70-41957
- Pressurized cell micrometeoroid detector Patent
[NASA-CASE-XLA-00936] c 14 N71-14996
- Detector panels-micrometeoroid impact Patent
[NASA-CASE-XLA-05906] c 31 N71-16221
- Rotary bead dropper and selector for testing micrometeorite detectors Patent
[NASA-CASE-XGS-03304] c 09 N71-22988
- Micrometeoroid penetration measuring device Patent
[NASA-CASE-XLA-00941] c 14 N71-23240
- Fabric for micrometeoroid protection garment Patent
[NASA-CASE-MSC-12109] c 18 N71-26285
- Micrometeoroid analyzer
[NASA-CASE-ARC-10443-1] c 14 N73-20477
- Meteoroid detector
[NASA-CASE-LAR-10483-1] c 14 N73-32327
- Deployable pressurized cell structure for a micrometeoroid detector
[NASA-CASE-LAR-10295-1] c 35 N74-21062
- Semiconductor projectile impact detector
[NASA-CASE-MFS-23008-1] c 35 N78-18390
- MICROMETERS**
Apparatus for handling micron size range particulate material
[NASA-CASE-NPO-10151] c 37 N78-17386
- MICROMINIATURIZATION**
Compensating radiometer
[NASA-CASE-XLA-04556] c 14 N69-27484
- MICROORGANISMS**
Bacteriostatic conformal coating and methods of application Patent
[NASA-CASE-GSC-10007] c 18 N71-16046
- Vacuum probe surface sampler
[NASA-CASE-LAR-10623-1] c 14 N73-30395
- Measurement of gas production of microorganisms — using pressure sensors
[NASA-CASE-LAR-11326-1] c 35 N75-33368
- Biocontamination and particulate detection system
[NASA-CASE-NPO-13953-1] c 35 N79-28527
- Indirect microbial detection
[NASA-CASE-LAR-12520-1] c 51 N81-28698
- Apparatus and process for microbial detection and enumeration
[NASA-CASE-LAR-12709-1] c 35 N82-28604
- Production of butanol by fermentation in the presence of co-culture of clostridium
[NASA-CASE-NPO-16203-1] c 44 N83-29806
- MICROPARTICLES**
Micropacked column for a chromatographic system
[NASA-CASE-XNP-04816] c 06 N69-39936
- Powder fed sheared dispersal particle generator
[NASA-CASE-LAR-12785-1] c 37 N84-16561
- MICROPHONES**
Audio signal processor Patent
[NASA-CASE-MSC-12223-1] c 07 N71-26181
- Vibrophonocardiograph Patent
[NASA-CASE-XFR-07172] c 05 N71-27234
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[NASA-CASE-XGS-05582] c 07 N69-27460

- Low noise single aperture multimode monopulse antenna feed system Patent
[NASA-CASE-XNP-01735] c 07 N71-22750

- Electronic scanning of 2-channel monopulse patterns Patent
[NASA-CASE-GSC-10299-1] c 09 N71-24804

- Switchable beamwidth monopulse method and system
[NASA-CASE-GSC-11924-1] c 33 N76-27472

- MONOPULSE RADAR
Polarization diversity monopulse tracking receiver Patent
[NASA-CASE-XGS-03501] c 09 N71-20864

- Monopulse tracking system Patent
[NASA-CASE-XGS-01155] c 10 N71-21483

- MONOSTABLE MULTIVIBRATORS
Resettable monostable pulse generator Patent
[NASA-CASE-GSC-11139] c 09 N71-27016

- Monostable multivibrator with complementary NOR gates Patent
[NASA-CASE-MSC-13492-1] c 10 N71-28860

MOSSBAUER EFFECT

- Mossbauer spectrometer radiation detector
[NASA-CASE-LAR-11155-1] c 35 N74-15091

- Method and apparatus for vibration analysis utilizing the Mossbauer effect
[NASA-CASE-XMF-05882] c 35 N75-27329

MOTION

- Quick attach mechanism Patent
[NASA-CASE-XFR-05421] c 15 N71-22994

MOTION PICTURES

- Real time moving scene holographic camera system
[NASA-CASE-MFS-21087-1] c 35 N74-17153

- Real time, large volume, moving scene holographic camera system
[NASA-CASE-MFS-22537-1] c 35 N75-27328

MOTION SIMULATORS

- Kinesthetic control simulator --- for pilot training
[NASA-CASE-LAR-10276-1] c 09 N75-15662

- Helmet weight simulator
[NASA-CASE-LAR-12320-1] c 54 N81-27806

MOTION STABILITY

- Hydraulic drive mechanism Patent
[NASA-CASE-XMS-03252] c 15 N71-10658

MOTORS

- Nonmagnetic thermal motor for a magnetometer
[NASA-CASE-XAR-03786] c 09 N69-21313

- System for maintaining a motor at a predetermined speed utilizing digital feedback means Patent
[NASA-CASE-XMF-06892] c 09 N71-24805

- Mechanical thermal motor
[NASA-CASE-MFS-23062-1] c 37 N77-12402

- Redundant motor drive system
[NASA-CASE-MFS-23777-1] c 37 N80-32716

- Reciprocating linear motor
[NASA-CASE-GSC-12773-1] c 33 N83-12332

MOUNTING

- Thermobulb mount Patent
[NASA-CASE-NPO-10158] c 33 N71-16356

- Mount for thermal control system Patent
[NASA-CASE-NPO-10138] c 33 N71-16357

- Clamping assembly for inertial components Patent
[NASA-CASE-XMS-02184] c 15 N71-20813

- Circuit board package with wedge shaped covers
[NASA-CASE-MFS-21919-1] c 10 N73-25243

- Lubricated journal bearing
[NASA-CASE-LEW-11076-3] c 37 N75-30562

- Translatory shock absorber for attitude sensors
[NASA-CASE-MFS-22905-1] c 19 N76-22284

- Deformable bearing seat
[NASA-CASE-LEW-12527-1] c 37 N77-32500

- Impact absorbing blade mounts for variable pitch blades
[NASA-CASE-LEW-12313-1] c 37 N78-10468

- Attaching of strain gages to substrates
[NASA-CASE-FRC-10093-1] c 35 N80-20560

- Adapter for mounting a microphone flush with the external surface of the skin of a pressurized aircraft
[NASA-CASE-FRC-11072-1] c 05 N83-27975

- Inflatable device for installing strain gage bridges
[NASA-CASE-FRC-11068-1] c 35 N84-12443

- Clamp-mount device
[NASA-CASE-MFS-25510-1] c 37 N84-16560

MOVING TARGET INDICATORS

- Automatic vehicle location system
[NASA-CASE-NPO-11850-1] c 32 N74-12912

- Interferometric location system
[NASA-CASE-NPO-14173-1] c 04 N80-32359

MULTIBEAM ANTENNAS

- Multibeam single frequency synthetic aperture radar processor for imaging separate range swaths
[NASA-CASE-NPO-14525-2] c 32 N83-31918

MULTICHANNEL COMMUNICATION

- Tape guidance system and apparatus for the provision thereof Patent
[NASA-CASE-XNP-09453] c 08 N71-19420

- Phase quadrature-plural channel data transmission system Patent
[NASA-CASE-XAC-06302] c 08 N71-19763

- Receiver with an improved phase lock loop in a multichannel telemetry system with suppressed carrier
[NASA-CASE-NPO-11593-1] c 07 N73-28012

- Miniature multichannel biotelemetry system
[NASA-CASE-NPO-13065-1] c 52 N74-26625

- Medical subject monitoring systems --- multichannel monitoring systems
[NASA-CASE-MSC-14180-1] c 52 N76-14757

- Multi-channel rotating optical interface for data transmission
[NASA-CASE-NPO-14066-1] c 74 N79-34011

- MULTILAYER INSULATION
Sealing member and combination thereof and method of producing said sealing member Patent
[NASA-CASE-XMS-01625] c 15 N71-23022

- Panelized high performance multilayer insulation Patent
[NASA-CASE-MFS-14023] c 33 N71-25351

- Electrical apparatus for detection of thermal decomposition of insulation Patent
[NASA-CASE-XMF-03968] c 14 N71-27186
- Method of making an insulation foil
[NASA-CASE-LEW-11484-1] c 24 N75-33181
- Process for preparing high temperature polyimide film laminates
[NASA-CASE-LAR-12742-1] c 24 N81-12174
- Multilayer thermal protection system
[NASA-CASE-LAR-12620-1] c 24 N82-32417
- MULTIPACTOR DISCHARGES**
High power RF coaxial switch
[NASA-CASE-NPO-14229-1] c 33 N80-18285
- MULTIPATH TRANSMISSION**
Anti-multipath digital signal detector
[NASA-CASE-LAR-11827-1] c 32 N77-10392
- Large volume multiple-path nuclear pumped laser
[NASA-CASE-LAR-12592-1] c 36 N82-13415
- MULTIPLE BEAM INTERVAL SCANNERS**
Tracking antenna system Patent
[NASA-CASE-GSC-10553-1] c 07 N71-19854
- Variable beamwidth antenna --- with multiple beam, variable feed system
[NASA-CASE-GSC-11862-1] c 32 N76-18295
- MULTIPLE DOCKING ADAPTERS**
Expanding center probe and drogue Patent
[NASA-CASE-XMS-03613] c 31 N71-16346
- MULTIPLE OUTPUT PROGRAMS**
Multi-computer multiple data path hardware exchange system
[NASA-CASE-NPO-13422-1] c 60 N76-14818
- MULTIPLEXING**
Doppler frequency spread correction device for multiplex transmissions
[NASA-CASE-XGS-02749] c 07 N69-39978
- Elimination of frequency shift in a multiplex communication system Patent
[NASA-CASE-XNP-01306] c 07 N71-20814
- Satellite interface synchronization system
[NASA-CASE-GSC-10390-1] c 07 N72-11149
- Method and apparatus for data compression by a decreasing slope threshold test
[NASA-CASE-NPO-10769] c 08 N72-11171
- Data multiplexer using tree switching configuration
[NASA-CASE-NPO-11333] c 08 N72-22162
- Television multiplexing system
[NASA-CASE-KSC-10654-1] c 07 N73-30115
- Asynchronous, multiplexing, single line transmission and recovery data system --- for satellite use
[NASA-CASE-NPO-13321-1] c 32 N75-26195
- Correlation type phase detector --- with time correlation integrator for frequency multiplexed signals
[NASA-CASE-GSC-11744-1] c 33 N75-26243
- System for producing chroma signals
[NASA-CASE-MS-C-14683-1] c 74 N77-18893
- Fiber optic multiplex optical transmission system
[NASA-CASE-KSC-11047-1] c 74 N78-14889
- System for a displaying at a remote station data generated at a central station and for powering the remote station from the central station
[NASA-CASE-GSC-12411-1] c 33 N81-14221
- Multifrequency broadband polarized horn antenna
[NASA-CASE-NPO-14588-1] c 32 N81-25278
- High-speed multiplexing of keyboard data inputs
[NASA-CASE-NPO-14554-1] c 60 N81-27814
- Multi-channel temperature measurement amplification system --- solar heating systems
[NASA-CASE-MFS-23775-1] c 44 N82-16474
- Correlation spectrometer having high resolution and multiplexing capability
[NASA-CASE-NPO-15558-1] c 35 N82-26636
- Integrating IR detector imaging systems
[NASA-CASE-NPO-15805-1] c 74 N83-20757
- Apparatus and method for tracking the fundamental frequency of an analog input signal
[NASA-CASE-ARC-11367-1] c 33 N83-21238
- MULTIPLIERS**
Pulse-width modulation multiplier Patent
[NASA-CASE-XER-09213] c 07 N71-12390
- Variable pulse width multiplier Patent
[NASA-CASE-XLA-02850] c 09 N71-20447
- Capacitance multiplier and filter synthesizing network
[NASA-CASE-NPO-11948-1] c 33 N74-32712
- Regulated high efficiency, lightweight capacitor-diode multiplier dc to dc converter
[NASA-CASE-LEW-12791-1] c 33 N78-32341
- MULTIPROCESSING (COMPUTERS)**
Multicomputer communication system
[NASA-CASE-NPO-15433-1] c 62 N83-20634
- MULTISPECTRAL BAND SCANNERS**
Optical process for producing classification maps from multispectral data
[NASA-CASE-MS-C-14472-1] c 43 N77-10584
- Interactive color display for multispectral imagery using correlation clustering
[NASA-CASE-MS-C-16253-1] c 32 N79-20297
- Multispectral scanner optical system
[NASA-CASE-MS-C-18255-1] c 74 N80-33210
- Medical diagnosis system and method with multispectral imaging --- depth of burns and optical density of the skin
[NASA-CASE-NPO-14402-1] c 52 N81-27783
- MULTISPECTRAL LINEAR ARRAYS**
Time delay and integration detectors using charge transfer devices
[NASA-CASE-GSC-12324-1] c 33 N81-33403
- MULTISPECTRAL PHOTOGRAPHY**
Multispectral imaging system
[NASA-CASE-MS-C-12404-1] c 23 N73-13661
- Optical process for producing classification maps from multispectral data
[NASA-CASE-MS-C-14472-1] c 43 N77-10584
- Multispectral imaging and analysis system --- using charge coupled devices and linear arrays
[NASA-CASE-NPO-13691-1] c 43 N79-17288
- Interactive color display for multispectral imagery using correlation clustering
[NASA-CASE-MS-C-16253-1] c 32 N79-20297
- MULTISTAGE ROCKET VEHICLES**
Recoverable rocket vehicle Patent
[NASA-CASE-XMF-00389] c 31 N70-34176
- Steerable solid propellant rocket motor Patent
[NASA-CASE-XNP-00234] c 28 N70-38645
- Multi-mission module Patent
[NASA-CASE-XMF-01543] c 31 N71-17730
- Single action separation mechanism Patent
[NASA-CASE-XLA-00188] c 15 N71-22874
- Lateral displacement system for separated rocket stages Patent
[NASA-CASE-XLA-04804] c 31 N71-23008
- Frangible link
[NASA-CASE-MS-C-11849-1] c 15 N72-22488
- Three stage rocket vehicle with parallel staging --- space transportation system
[NASA-CASE-MFS-25878-1] c 18 N83-12138
- MULTIVIBRATORS**
Ultra-long monostable multivibrator employing bistable semiconductor switch to allow charging of timing circuit Patent
[NASA-CASE-XGS-00381] c 09 N70-34819
- Variable frequency magnetic multivibrator Patent
[NASA-CASE-XGS-00458] c 09 N70-38604
- Variable frequency magnetic multivibrator Patent
[NASA-CASE-XGS-00131] c 09 N70-38995
- High efficiency multivibrator Patent
[NASA-CASE-XAC-00942] c 10 N71-16042
- A dc-coupled noninverting one-shot Patent
[NASA-CASE-XNP-09450] c 10 N71-18723
- Multivibrator circuit with means to prevent false triggering from supply voltage fluctuations Patent
[NASA-CASE-ARC-10137-1] c 09 N71-28468
- Digital demodulator
[NASA-CASE-LAR-12659-1] c 33 N82-26570
- MUSCLES**
Subminiature insertable force transducer --- including a strain gage to measure forces in muscles
[NASA-CASE-NPO-13423-1] c 33 N75-31329
- Multifunctional transducer
[NASA-CASE-NPO-14329-1] c 52 N81-20703
- MUSCULAR FUNCTION**
Miniature muscle displacement transducer
[NASA-CASE-NPO-13519-1] c 33 N76-19338
- Simultaneous muscle force and displacement transducer
[NASA-CASE-NPO-14212-1] c 52 N80-27072
- MUSCULOSKELETAL SYSTEM**
Skeletal stressing method and apparatus Patent
[NASA-CASE-ARC-10100-1] c 05 N71-24738
- MYOCARDIUM**
Myocardium wall thickness transducer and measuring method
[NASA-CASE-NPO-13644-1] c 52 N76-29895
- Simultaneous muscle force and displacement transducer
[NASA-CASE-NPO-14212-1] c 52 N80-27072
- MYOPIA**
Visual accommodation trainer-tester
[NASA-CASE-ARC-11426-1] c 09 N84-12193
- N**
- N-TYPE SEMICONDUCTORS**
Complementary DMOS-VMOS integrated circuit structure
[NASA-CASE-GSC-12190-1] c 33 N79-12321
- NACELLES**
Inlet deflector for jet engines Patent
[NASA-CASE-XLE-00388] c 28 N70-34788
- Nacelle afterbody for jet engines Patent
[NASA-CASE-XLA-10450] c 28 N71-21493
- Integrated gas turbine engine-nacelle
[NASA-CASE-LEW-12389-2] c 07 N78-18066
- Integrated gas turbine engine-nacelle
[NASA-CASE-LEW-12389-3] c 07 N79-14096
- NASA PROGRAMS**
Retractable environmental seal
[NASA-CASE-MFS-23646-1] c 37 N79-22474
- NAVIGATION**
Thumb actuated two axis controller
[NASA-CASE-ARC-11372-1] c 08 N83-12098
- NAVIGATION AIDS**
Magnetic heading reference
[NASA-CASE-LAR-11387-1] c 04 N76-20114
- Ruler for making navigational computations
[NASA-CASE-XNP-01458] c 04 N78-17031
- Low-frequency radio navigation system
[NASA-CASE-NPO-15264-1] c 04 N81-22036
- System for providing an integrated display of instantaneous information relative to aircraft attitude, heading, altitude, and horizontal situation
[NASA-CASE-FRC-11005-1] c 06 N82-16075
- Magnetic heading reference
[NASA-CASE-LAR-12638-1] c 04 N84-14132
- NAVIGATION INSTRUMENTS**
Sun angle calculator
[NASA-CASE-MS-C-12617-1] c 35 N76-29552
- NAVIGATION SATELLITES**
Satellite aided vehicle avoidance system Patent
[NASA-CASE-ERC-10090] c 21 N71-24948
- NEAR INFRARED RADIATION**
Collimator of multiple plates with axially aligned identical random arrays of apertures
[NASA-CASE-MFS-20546-2] c 14 N73-30389
- NEGATIVE FEEDBACK**
Complementary regenerative switch Patent
[NASA-CASE-XGS-02751] c 09 N71-23015
- Solid-state current transformer
[NASA-CASE-MFS-22560-1] c 33 N77-14335
- NEGATIVE RESISTANCE CIRCUITS**
General logic structure for custom LSI circuits
[NASA-CASE-NPO-14410-2] c 33 N82-25440
- NEODYMIUM LASERS**
Length controlled stabilized mode-lock ND:YAG laser
[NASA-CASE-GSC-11571-1] c 36 N77-25499
- NERVES**
Implantable electrical device
[NASA-CASE-GSC-12560-1] c 52 N82-29863
- NETWORK SYNTHESIS**
Electromagnetic polarization systems and methods Patent
[NASA-CASE-GSC-10021-1] c 09 N71-24595
- High speed phase detector Patent
[NASA-CASE-XNP-01306-2] c 09 N71-24596
- Tuned analog network
[NASA-CASE-GSC-12650-1] c 33 N84-14421
- NEUROGLIA**
Percutaneous connector device
[NASA-CASE-KSC-10849-1] c 52 N77-14738
- NEUROLOGY**
Implantable electrical device
[NASA-CASE-GSC-12560-1] c 52 N82-29863
- NEUTRALIZERS**
Method and apparatus for neutralizing potentials induced on spacecraft surfaces
[NASA-CASE-GSC-11963-1] c 33 N77-10429
- Method of neutralizing the corrosive surface of amine-cured epoxy resins
[NASA-CASE-GSC-12686-1] c 27 N83-34039
- NEUTRON EMISSION**
Deuterium pass through target --- neutron emitting target
[NASA-CASE-LEW-11866-1] c 72 N76-15860
- NEUTRON SOURCES**
Method and apparatus for mapping the distribution of chemical elements in an extended medium
[NASA-CASE-GSC-12808-1] c 45 N83-20446
- NICKEL**
Process for producing dispersion strengthened nickel with aluminum Patent
[NASA-CASE-XLE-06969] c 17 N71-24142
- Selective nickel deposition
[NASA-CASE-LEW-10965-1] c 15 N72-25452
- Brazing alloy composition
[NASA-CASE-XMF-06053] c 26 N75-27126
- Method of making reinforced composite structure
[NASA-CASE-LEW-12619-1] c 24 N77-19171
- Directionally solidified eutectic gamma-gamma nickel-base superalloys
[NASA-CASE-LEW-12905-1] c 26 N78-18183
- NICKEL ALLOYS**
High temperature nickel-base alloy Patent
[NASA-CASE-XLE-00151] c 17 N70-33283
- Nickel-base alloy Patent
[NASA-CASE-XLE-00283] c 17 N70-36616
- Nickel-base alloy containing Mo-W-Al-Cr-Ta-Zr-C-Nb-B Patent
[NASA-CASE-XLE-02082] c 17 N71-16026

Nickel base alloy
[NASA-CASE-LEW-10874-1] c 17 N72-22535
Diffusion welding --- heat treatment of nickel alloys following single step vacuum welding process
[NASA-CASE-LEW-11388-2] c 37 N74-21055
Method of heat treating age-hardenable alloys
[NASA-CASE-XNP-01311] c 26 N75-29236
Zirconium modified nickel-copper alloy
[NASA-CASE-LEW-12245-1] c 26 N77-20201
Directionally solidified eutectic gamma plus beta nickel-base superalloys
[NASA-CASE-LEW-12906-1] c 26 N77-32279
Nickel base alloy --- for gas turbine engine stator vanes
[NASA-CASE-LEW-12270-1] c 26 N77-32280
Nical ternary alloy having improved cyclic oxidation resistance
[NASA-CASE-LEW-13339-1] c 26 N82-31505
Overlay metallic-cermet alloy coating systems --- for gas turbine engines
[NASA-CASE-LEW-13639-1] c 27 N82-33522
Improved nickel base coating alloy --- oxidation resistant coatings
[NASA-CASE-LEW-13834-1] c 26 N83-24639

NICKEL CADMIUM BATTERIES

Heat flow calorimeter --- measures output of Ni-Cd batteries
[NASA-CASE-GSC-11434-1] c 34 N74-27859
Method and apparatus for conditioning of nickel-cadmium batteries
[NASA-CASE-MFS-23270-1] c 44 N78-25531

NICKEL COATINGS

Nickel aluminide coated low alloy stainless steel
[NASA-CASE-LEW-11267-1] c 17 N73-32414
Selective coating for solar panels --- using black chrome and black nickel
[NASA-CASE-LEW-12159-1] c 44 N78-19599

NICKEL COMPOUNDS

Didymium hydrate additive to nickel hydroxide electrodes Patent
[NASA-CASE-XGS-03505] c 03 N71-10608
Brazing alloy
[NASA-CASE-XNP-03878] c 26 N75-27127

NICKEL PLATE

Plating nickel on aluminum castings Patent
[NASA-CASE-XNP-01418] c 17 N71-24830

NICKEL ZINC BATTERIES

Additive for zinc electrodes --- electric automobiles
[NASA-CASE-LEW-13286-1] c 33 N84-14422

NIOBIUM

Trialkyl-dihalotantalum and niobium compounds Patent
[NASA-CASE-XNP-04023] c 06 N71-28808

NITRAMINE PROPELLANTS

Nitramine propellants --- gun propellant burning rate
[NASA-CASE-NPO-14103-1] c 28 N78-31255

NITRATES

Method of forming dynamic membrane on stainless steel support
[NASA-CASE-MSC-18172-1] c 26 N80-19237

NITRIC OXIDE

Reduction of nitric oxide emissions from a combustor
[NASA-CASE-ARC-10814-2] c 07 N80-26298

NITRIDES

Refractory coatings and method of producing the same
[NASA-CASE-LEW-13169-1] c 26 N82-29415

NITRILES

Intumescent paint containing nitrile rubber
[NASA-CASE-ARC-10196-1] c 18 N73-13562
Trimerization of aromatic nitriles
[NASA-CASE-LEW-12053-1] c 27 N78-15276
Preparation of perfluorinated imidoylamidoximes --- for eventual preparation of heat and chemical resistant polymers
[NASA-CASE-ARC-11267-1] c 23 N80-26386
Process for preparing phthalocyanine polymers
[NASA-CASE-ARC-11511-1] c 23 N84-16259

NITRO COMPOUNDS

Intumescent coatings containing 4,4'-dinitrosulfanilide
[NASA-CASE-ARC-11042-1] c 24 N78-14096
The 1-(dialkoxyposphonyl)methyl-2,4- and -2,6-dinitro- and diamino benzenes and their derivatives
[NASA-CASE-ARC-11425-1] c 23 N83-28076

NITROAMINES

Intumescent paints Patent
[NASA-CASE-ARC-10099-1] c 18 N71-15469
Polymeric vehicles as carriers for sulfonic acid salt of nitrosubstituted aromatic amines
[NASA-CASE-ARC-10325] c 06 N72-25147

NITROGEN

III-V photocathode with nitrogen doping for increased quantum efficiency
[NASA-CASE-NPO-12134-1] c 33 N76-31409

NITROGEN COMPOUNDS

Method for preparing addition type polyimide prepreps
[NASA-CASE-LAR-12054-2] c 27 N81-14078

NITROGEN OXIDES

Combustion engine --- for air pollution control
[NASA-CASE-NPO-13671-1] c 37 N77-31497
Combustor --- low nitrogen oxide formation
[NASA-CASE-NPO-13958-1] c 25 N79-11151

NITROGEN TETROXIDE

Procedure and apparatus for determination of water in nitrogen tetroxide
[NASA-CASE-NPO-10234] c 06 N72-17094

NITROGUANIDINE

Hydrazinium nitroformate propellant stabilized with nitroguanidine
[NASA-CASE-NPO-12000] c 27 N72-25699

NOBLE METALS

GaAs Schottky barrier photo-responsive device and method of fabrication --- photovoltaic cells
[NASA-CASE-GSC-12816-1] c 76 N83-30268

NODES (STANDING WAVES)

System for controlled acoustic rotation of objects
[NASA-CASE-NPO-15522-1] c 71 N83-32516

NOISE GENERATORS

Pseudo-noise test set for communication system evaluation --- test signals
[NASA-CASE-MFS-22671-1] c 35 N75-21582
Method of and means for testing a tape record/playback system
[NASA-CASE-MFS-22671-2] c 35 N77-17426

NOISE METERS

Instrumentation for measurement of aircraft noise and sonic boom
[NASA-CASE-LAR-11173-1] c 35 N75-19614
Differential sound level meter
[NASA-CASE-LAR-12106-1] c 71 N78-14867
Ride quality meter
[NASA-CASE-LAR-12882-1] c 35 N84-12445

NOISE REDUCTION

Jet aircraft configuration Patent
[NASA-CASE-XLA-00087] c 02 N70-33332
Cassegrainian antenna subreflector flange for suppressing ground noise Patent
[NASA-CASE-XNP-00683] c 09 N70-35425
Device for suppressing sound and heat produced by high-velocity exhaust jets Patent
[NASA-CASE-XMF-01813] c 28 N70-41582
Variable time constant smoothing circuit Patent
[NASA-CASE-XGS-01983] c 10 N70-41964
Digital telemetry system Patent
[NASA-CASE-XGS-01812] c 07 N71-23001
Audio signal processor Patent
[NASA-CASE-MSC-12223-1] c 07 N71-26181
Variable frequency nuclear magnetic resonance spectrometer Patent
[NASA-CASE-NPO-09830] c 14 N71-26266
Method and apparatus for eliminating coherent noise in a coherent energy imaging system without destroying spatial coherence
[NASA-CASE-GSC-11133-1] c 23 N72-11568
Audio system with means for reducing noise effects
[NASA-CASE-NPO-11631] c 10 N73-12244
Gas turbine exhaust nozzle --- for noise reduction
[NASA-CASE-LEW-11569-1] c 07 N74-15453
Totally confined explosive welding --- apparatus to reduce noise level and protect personnel during explosive bonding
[NASA-CASE-LAR-10941-1] c 37 N74-21057
Jet exhaust noise suppressor
[NASA-CASE-LEW-11286-1] c 07 N74-27490
Supersonic fan blading --- noise reduction in turbofan engines
[NASA-CASE-LEW-11402-1] c 07 N74-28226
Variably positioned guide vanes for aerodynamic choking
[NASA-CASE-LAR-10642-1] c 07 N74-31270
Noise suppressor --- for turbofan engine by incorporating annular acoustically porous elements in exhaust and inlet ducts
[NASA-CASE-LAR-11141-1] c 07 N74-32418
Abating exhaust noises in jet engines
[NASA-CASE-ARC-10712-1] c 07 N74-33218
Television noise reduction device
[NASA-CASE-MSC-12607-1] c 32 N75-21485
Cascade plug nozzle --- for jet noise reduction
[NASA-CASE-LAR-11674-1] c 07 N76-18117
Apparatus for reducing aerodynamic noise in a wind tunnel
[NASA-CASE-MFS-23099-1] c 09 N76-23273
Optical noise suppression device and method --- laser light exposing film
[NASA-CASE-MSC-12640-1] c 74 N76-31998
Variable thrust nozzle for quiet turbofan engine and method of operating same
[NASA-CASE-LEW-12317-1] c 07 N78-17055
Magneto-optic detection system with noise cancellation
[NASA-CASE-NPO-11954-1] c 35 N78-29421

Totally confined explosive welding
[NASA-CASE-LAR-10941-2] c 37 N79-13364
Sound-suppressing structure with thermal relief
[NASA-CASE-LEW-12658-1] c 71 N79-14871
Acoustically swept rotor --- helicopter noise reduction
[NASA-CASE-ARC-11106-1] c 05 N80-14107
Support assembly for cryogenically coolable low-noise choke waveguide
[NASA-CASE-NPO-14253-1] c 32 N80-32605
Curved centerline air intake for a gas turbine engine
[NASA-CASE-LEW-13201-1] c 07 N81-14999
Multiple pure tone elimination strut assembly --- air breathing engines
[NASA-CASE-FRC-11062-1] c 71 N82-16800
Sound shield
[NASA-CASE-LAR-12883-1] c 71 N83-17235
Noise suppressor for turbo fan jet engines
[NASA-CASE-ARC-10812-1] c 07 N83-33884
Apparatus and method for jet noise suppression
[NASA-CASE-LAR-11903-2] c 71 N84-14873

NOISE TEMPERATURE

Method and means for providing an absolute power measurement capability Patent
[NASA-CASE-ERC-11020] c 14 N71-26774

NOISE THRESHOLD

Frequency modulation demodulator threshold extension device Patent
[NASA-CASE-MSC-12165-1] c 07 N71-33696

NONADIABATIC CONDITIONS

Direct heating surface combustor
[NASA-CASE-LEW-11877-1] c 34 N78-27357

NONDESTRUCTIVE TESTS

Determination of spot weld quality Patent
[NASA-CASE-XNP-02588] c 15 N71-18613
Space simulator Patent
[NASA-CASE-NPO-10141] c 11 N71-24964
Apparatus for inspecting microfilm Patent
[NASA-CASE-MFS-20240] c 14 N71-26788
Dye penetrant for surfaces subsequently contacted by liquid oxygen Patent
[NASA-CASE-XMF-02221] c 18 N71-27170
Method and device for detecting voids in low density material Patent
[NASA-CASE-MFS-20044] c 14 N71-28993
Holographic system for nondestructive testing
[NASA-CASE-MFS-21704-1] c 35 N75-25124
Method and apparatus for nondestructive testing of pressure vessels
[NASA-CASE-NPO-12142-1] c 38 N76-28563
Non-destructive method for applying and removing instrumentation on helicopter rotor blades
[NASA-CASE-LAR-11201-1] c 35 N78-24515
Hybrid holographic non-destructive test system
[NASA-CASE-MFS-23114-1] c 38 N78-32447

NONEQUILIBRIUM CONDITIONS

Condition sensor system and method
[NASA-CASE-MSC-14805-1] c 54 N78-32720

NONEQUILIBRIUM PLASMAS

Probes having ring and primary sensor at same potential to prevent collection of stray wall currents in ionized gases
[NASA-CASE-XLE-00690] c 25 N69-39884

NONEQUILIBRIUM RADIATION

Non-equilibrium radiation nuclear reactor
[NASA-CASE-HQN-10841-1] c 73 N78-19920

NONFLAMMABLE MATERIALS

Intumescent paint containing nitrile rubber
[NASA-CASE-ARC-10196-1] c 18 N73-13562
Non-flammable elastomeric fiber from a fluorinated elastomer and containing a halogenated flame retardant
[NASA-CASE-MSC-14331-1] c 27 N76-24405

NONLINEAR FEEDBACK

Coherent receiver employing nonlinear coherence detection for carrier tracking
[NASA-CASE-NPO-11921-1] c 32 N74-30523
Nonlinear nonsingular feedback shift registers
[NASA-CASE-NPO-13451-1] c 33 N76-14373

NONLINEAR FILTERS

Apparatus for damping operator induced oscillations of a controlled system --- flight control
[NASA-CASE-FRC-11041-1] c 33 N82-18493

NONLINEAR SYSTEMS

Phase detector assembly Patent
[NASA-CASE-XMF-00701] c 09 N70-40272
Nonlinear analog-to-digital converter Patent
[NASA-CASE-XAC-04031] c 08 N71-18594
Split range transducer
[NASA-CASE-XLA-11189] c 10 N72-20222
Contour measurement system
[NASA-CASE-MFS-23726-1] c 43 N79-26439

NOSE CONES

Automatically deploying nozzle exit cone extension Patent
[NASA-CASE-XLE-01640] c 31 N71-15637

Nose cone mounted heat resistant antenna Patent
[NASA-CASE-XMS-04312] c 07 N71-22984

NOSE WHEELS
Nose gear steering system for vehicle with main skids
Patent
[NASA-CASE-XLA-01804] c 02 N70-34160

NOTCH STRENGTH
Active notch filter network with variable notch depth,
width and frequency
[NASA-CASE-FRC-11055-1] c 33 N80-29583

NOTCH TESTS
Vee-notching device --- with adjustable carriage
[NASA-CASE-MFS-20730-1] c 39 N74-13131
Notch filter
[NASA-CASE-MFS-23303-1] c 32 N77-18307

NOTCHES
Notch filter
[NASA-CASE-MFS-23303-1] c 32 N77-18307

NOZZLE DESIGN
Annular rocket motor and nozzle configuration Patent
[NASA-CASE-XLE-00078] c 28 N70-33284
Penshape exhaust nozzle for supersonic engine
Patent
[NASA-CASE-XLE-00057] c 28 N70-38711
Telescoping-spike supersonic inlet for aircraft engines
Patent
[NASA-CASE-XLE-00005] c 28 N70-39899
Automatically deploying nozzle exit cone extension
Patent
[NASA-CASE-XLE-01640] c 31 N71-15637
Injector assembly for liquid fueled rocket engines
Patent
[NASA-CASE-XMF-00968] c 28 N71-15660
Collapsible nozzle extension for rocket engines
Patent
[NASA-CASE-MFS-11497] c 28 N71-16224
Gas turbine combustion apparatus Patent
[NASA-CASE-XLE-103477-1] c 28 N71-20330
Prestressed refractory structure Patent
[NASA-CASE-XNP-02888] c 18 N71-21068
Scanning nozzle plating system --- for etching or plating
metals on substrates without masking
[NASA-CASE-NPO-11758-1] c 31 N74-23065
Variable thrust nozzle for quiet turbofan engine and
method of operating same
[NASA-CASE-LEW-12317-1] c 07 N78-17055
Variable area exhaust nozzle
[NASA-CASE-LEW-12378-1] c 07 N79-14097
Aircraft engine nozzle
[NASA-CASE-ARC-10977-1] c 07 N80-32392
Sandblasting nozzle
[NASA-CASE-NPO-13823-1] c 37 N81-25371
Controlled overspray spray nozzle
[NASA-CASE-MFS-25139-1] c 34 N82-13376

NOZZLE FLOW
Control system for rocket vehicles Patent
[NASA-CASE-XLA-01163] c 21 N71-15582
Aerodynamic spike nozzle Patent
[NASA-CASE-XGS-01143] c 31 N71-15647
Propellant mass distribution metering apparatus
Patent
[NASA-CASE-NPO-10185] c 10 N71-26339
Tertiary flow injection thrust vectoring system Patent
[NASA-CASE-MFS-20831] c 28 N71-29153
Multi-purpose wind tunnel reaction control model
block
[NASA-CASE-MSC-19706-1] c 09 N78-31129

NOZZLE GEOMETRY
Method of making a rocket nozzle
[NASA-CASE-XMF-06884-1] c 20 N79-21123

NOZZLE INSERTS
Self-sealing, unbonded, rocket motor nozzle closure
Patent
[NASA-CASE-XLA-02651] c 28 N70-41967
Wind tunnel supplementary Mach number minimum
section insert
[NASA-CASE-LAR-12532-1] c 09 N82-11088

NUCLEAR EXPLOSION EFFECT
Method and construction for protecting heat sensitive
bodies from thermal radiation and convective heat
Patent
[NASA-CASE-XNP-01310] c 33 N71-28852

NUCLEAR FUEL ELEMENTS
Nuclear fuel elements
[NASA-CASE-XLE-00209] c 22 N73-32528

NUCLEAR MAGNETIC RESONANCE
Variable frequency nuclear magnetic resonance
spectrometer Patent
[NASA-CASE-XNP-09830] c 14 N71-26266

NUCLEAR MEDICINE
Method for thermal monitoring subcutaneous tissue
[NASA-CASE-LAR-13028-1] c 52 N84-21053

NUCLEAR POWER PLANTS
Self-adjusting multisegment, deployable, natural
circulation radiator Patent
[NASA-CASE-XHQ-03873] c 33 N71-29046

NUCLEAR PUMPED LASERS

Volumetric direct nuclear pumped laser
[NASA-CASE-LAR-12183-1] c 36 N79-18307

NUCLEAR PUMPING

Large volume multiple-path nuclear pumped laser
[NASA-CASE-LAR-12592-1] c 36 N82-13415

NUCLEAR REACTOR CONTROL

Gaseous control system for nuclear reactors
[NASA-CASE-XLE-04599] c 22 N72-20597
Control for nuclear thermionic power source
[NASA-CASE-NPO-13114-2] c 73 N78-28913

NUCLEAR REACTORS

Nuclear thermionic converter --- tungsten-thorium oxide
rods
[NASA-CASE-NPO-13121-1] c 73 N77-18891
High thermal power density heat transfer apparatus
providing electrical isolation at high temperature using heat
pipes
[NASA-CASE-LEW-12950-2] c 44 N83-29804

NUCLEATE BOILING

Method of improving heat transfer characteristics in a
nucleate boiling process Patent
[NASA-CASE-XMS-04268] c 33 N71-16277

NULL ZONES

Null device for hand controller Patent
[NASA-CASE-XLA-01808] c 15 N71-20740

NUMBER THEORY

Binary concatenated coding system
[NASA-CASE-MSC-14082-1] c 60 N76-23850

NUMERICAL CONTROL

Fringe counter for interferometers Patent
[NASA-CASE-LAR-10204] c 14 N71-27215
Digital numerically controlled oscillator
[NASA-CASE-MSC-16747-1] c 33 N81-17349
Controller for computer control of brushless dc motors
--- automobile engines
[NASA-CASE-NPO-13970-1] c 33 N81-20352
Reconfiguring redundancy management
[NASA-CASE-MSC-18498-1] c 60 N82-29013

NUMERICAL INTEGRATION

Apparatus for computing square roots Patent
[NASA-CASE-XGS-04768] c 08 N71-19437

NUTATION

Method and means for damping nutation in a satellite
Patent
[NASA-CASE-XMF-00442] c 31 N71-10747
Nutation damper
[NASA-CASE-GSC-11205-1] c 15 N73-25513

NUTATION DAMPERS

Active nutation controller
[NASA-CASE-GSC-12273-1] c 35 N80-21719
Method of damping nutation motion with minimum spin
axis attitude disturbance
[NASA-CASE-GSC-12551-1] c 18 N83-28064

NUTS (FASTENERS)

Separation nut Patent
[NASA-CASE-XGS-01971] c 15 N71-15922
Split nut separation system Patent
[NASA-CASE-XNP-06914] c 15 N71-21489
Fastener stretcher
[NASA-CASE-GSC-11149-1] c 15 N73-30457
High-torque open-end wrench
[NASA-CASE-NPO-13541-1] c 37 N79-14383
Floating nut retention system
[NASA-CASE-MSC-16938-1] c 37 N80-23653

O**O RING SEALS**

High pressure four-way valve Patent
[NASA-CASE-XNP-00214] c 15 N70-36908
Self-stabilizing radial face seal
[NASA-CASE-LEW-12991-1] c 37 N81-24442
Circumferential shaft seal
[NASA-CASE-LEW-12119-2] c 37 N81-26447
Modified spiral wound retaining ring
[NASA-CASE-LAR-12361-1] c 37 N83-19091
Resilient seal ring assembly with spring means applying
force to wedge member --- cryogenic applications
[NASA-CASE-MFS-25678-1] c 37 N84-11497

OBLIQUE WINGS

Oblique-wing supersonic aircraft
[NASA-CASE-ARC-10470-3] c 05 N76-29217

OCCLUSION

Prosthetic occlusive device for an internal
passageway
[NASA-CASE-MFS-25740-1] c 52 N84-11744

OCEAN CURRENTS

Method and apparatus for Delta K synthetic aperture
radar measurement of ocean current
[NASA-CASE-NPO-15704-1] c 32 N82-28502

OCEAN DATA ACQUISITIONS SYSTEMS

Oceanic wave measurement system
[NASA-CASE-MFS-23862-1] c 48 N80-18667

OCEAN SURFACE

Surface roughness measuring system --- synthetic
aperture radar measurements of ocean wave height and
terrain peaks
[NASA-CASE-NPO-13862-1] c 35 N79-10391

Oceanic wave measurement system
[NASA-CASE-MFS-23862-1] c 48 N80-18667

OCEAN THERMAL ENERGY CONVERSION

Ocean thermal plant
[NASA-CASE-KSC-11034-1] c 44 N78-32542

OFFSHORE PLATFORMS

Ocean thermal plant
[NASA-CASE-KSC-11034-1] c 44 N78-32542

OHMMETERS

Positive contact resistance soldering unit
[NASA-CASE-KSC-10242] c 15 N72-23497

OIL EXPLORATION

Underwater seismic source --- for petroleum
exploration
[NASA-CASE-NPO-14255-1] c 46 N79-23555
Borehole geological assessment
[NASA-CASE-NPO-14231-1] c 46 N80-10709

OIL RECOVERY

Oil and fat absorbing polymers
[NASA-CASE-NPO-11609-2] c 27 N77-31308
In-situ laser retorting of oil shale
[NASA-CASE-LEW-12217-1] c 43 N78-14452
Crude oil desulfurization
[NASA-CASE-NPO-14542-1] c 25 N82-23282

OILS

Method of recording a gas flow pattern Patent
[NASA-CASE-XMF-01779] c 12 N71-20815
Oil and fat absorbing polymers
[NASA-CASE-NPO-11609-2] c 27 N77-31308

OMNIDIRECTIONAL ANTENNAS

Omnidirectional microwave spacecraft antenna Patent
[NASA-CASE-XLA-03114] c 09 N71-22888
Stacked array of omnidirectional antennas
[NASA-CASE-LAR-10545-1] c 09 N72-21244
Omnidirectional slot antenna for mounting on cylindrical
space vehicle
[NASA-CASE-LAR-10163-1] c 09 N72-25247

ONBOARD EQUIPMENT

Survival couch Patent
[NASA-CASE-XLA-00118] c 05 N70-33285
Cryogenic storage system Patent
[NASA-CASE-XMS-04390] c 31 N70-41871
Fiber optic vibration transducer and analyzer Patent
[NASA-CASE-XMF-02433] c 14 N71-10616
Satellite appendage tie down cord Patent
[NASA-CASE-XGS-02554] c 31 N71-21064
Satellite aided vehicle avoidance system Patent
[NASA-CASE-ERC-10090] c 21 N71-24948
A dc servosystem including an ac motor Patent
[NASA-CASE-NPO-10700] c 07 N71-33613
Collapsible Apollo couch
[NASA-CASE-MSC-13140] c 05 N72-11085
Monostable multivibrator
[NASA-CASE-GSC-10082-1] c 10 N72-20221
Delayed simultaneous release mechanism
[NASA-CASE-GSC-10814-1] c 03 N73-20039
Electronic strain-level counter
[NASA-CASE-LAR-10756-1] c 32 N73-26910
Magnetic heading reference
[NASA-CASE-LAR-11387-1] c 04 N76-20114

OPERATING TEMPERATURE

Solar cell having improved back surface reflector
[NASA-CASE-LEW-13620-1] c 44 N83-13579

OPERATIONAL AMPLIFIERS

Digital automatic gain amplifier
[NASA-CASE-KSC-11008-1] c 33 N79-22373
Reactanceless bandpass amplifier
[NASA-CASE-GSC-12788-1] c 33 N83-12333
Phase detector for three-phase power factor controller
[NASA-CASE-MFS-25854-1] c 33 N83-17804
Automatic level control circuit
[NASA-CASE-KSC-11170-1] c 33 N83-36356

OPHTHALMOLOGY

Ophthalmic method and apparatus
[NASA-CASE-LEW-11669-1] c 05 N73-27062
Ophthalmic liquefaction pump
[NASA-CASE-LEW-12051-1] c 52 N75-33640

OPTICAL COMMUNICATION

Retrodirective optical system
[NASA-CASE-XGS-04480] c 16 N69-27491
Optical communications system Patent
[NASA-CASE-XLA-01090] c 07 N71-12389
Optical frequency waveguide and transmission system
Patent
[NASA-CASE-HQN-10541-4] c 16 N71-27183
Optical communications system Patent
[NASA-CASE-XLA-01090] c 16 N71-28963
High pulse rate high resolution optical radar system
[NASA-CASE-NPO-11426] c 07 N73-26119
Apparatus for simulating optical transmission links
[NASA-CASE-GSC-11877-1] c 74 N76-18913

Fiber distributed feedback laser
[NASA-CASE-NPO-13531-1] c 36 N76-24553

Polarization compensator for optical communications
[NASA-CASE-GSC-11782-1] c 74 N76-30053

Gregorian all-reflective optical system
[NASA-CASE-GSC-12058-1] c 74 N77-26942

Wideband heterodyne receiver for laser communication system
[NASA-CASE-GSC-12053-1] c 32 N77-28346

Fiber optic multiplex optical transmission system
[NASA-CASE-KSC-11047-1] c 74 N78-14889

Integrated opto-electronic laser beam deflector position detector
[NASA-CASE-NPO-15943-1] c 36 N83-20092

Fiber optic crossbar switch for automatically patching optical signals
[NASA-CASE-KSC-11104-1] c 74 N83-29032

OPTICAL COUPLING

Automatic quadrature control and measuring system --- using optical coupling circuitry
[NASA-CASE-MFS-21660-1] c 35 N74-21017

Method for making a bonded single mode fiber optic wavelength coupler
[NASA-CASE-NPO-15464-1] c 74 N83-25540

OPTICAL DATA PROCESSING

Optical data processing using paraboloidal mirror segments
[NASA-CASE-GSC-11296-1] c 23 N73-30666

Recorder/processor apparatus --- for optical data processing
[NASA-CASE-GSC-11553-1] c 35 N74-15831

Multibeam single frequency synthetic aperture radar processor for imaging separate range swaths
[NASA-CASE-NPO-14525-1] c 32 N79-19195

Interleaving device
[NASA-CASE-GSC-12111-2] c 33 N81-29342

Real-time multiple-look synthetic aperture radar processor for spacecraft applications
[NASA-CASE-NPO-14054-1] c 32 N82-12297

Optical stereo video signal processor --- line of sight tracking
[NASA-CASE-MFS-25752-1] c 74 N83-21950

Multibeam single frequency synthetic aperture radar processor for imaging separate range swaths
[NASA-CASE-NPO-14525-2] c 32 N83-31918

OPTICAL DENSITY

Medical diagnosis system and method with multispectral imaging --- depth of burns and optical density of the skin
[NASA-CASE-NPO-14402-1] c 52 N81-27783

OPTICAL EMISSION SPECTROSCOPY

Maksutov spectrograph Patent
[NASA-CASE-XLA-10402] c 14 N71-29041

OPTICAL EQUIPMENT

Light detection instrument Patent
[NASA-CASE-XGS-05534] c 23 N71-16355

Optical characteristics measuring apparatus Patent
[NASA-CASE-XNP-08840] c 23 N71-16365

Combined optical attitude and altitude indicating instrument Patent
[NASA-CASE-XLA-01907] c 14 N71-23268

Laser grating interferometer Patent
[NASA-CASE-XLA-04295] c 16 N71-24170

Optical mirror apparatus Patent
[NASA-CASE-ERC-10001] c 23 N71-24868

Method for generating ultra-precise angles Patent
[NASA-CASE-XGS-04173] c 19 N71-26674

Petzval type objective including field shaping lens Patent
[NASA-CASE-GSC-10700] c 23 N71-30027

Compact spectroradiometer
[NASA-CASE-HQN-10683] c 14 N71-34389

Fine adjustment mount
[NASA-CASE-MFS-20249] c 15 N72-11386

Method of coating solar cell with borosilicate glass and resultant product
[NASA-CASE-GSC-11514-1] c 03 N72-24037

Light sensor
[NASA-CASE-NPO-11311] c 14 N72-25414

Borescope with variable angle scope
[NASA-CASE-MFS-15162] c 14 N72-32452

Cyclically operable optical shutter
[NASA-CASE-NPO-10758] c 14 N73-14427

Star tracking reticles and process for the production thereof
[NASA-CASE-GSC-11188-2] c 21 N73-19630

Infrared horizon locator
[NASA-CASE-LAR-10726-1] c 14 N73-20475

Multiple pass reimaging optical system
[NASA-CASE-ARC-10194-1] c 23 N73-20741

Attitude sensor
[NASA-CASE-LAR-10586-1] c 19 N74-15089

Formation of star tracking reticles
[NASA-CASE-GSC-11188-3] c 74 N74-20008

Method and apparatus for optically monitoring the angular position of a rotating mirror
[NASA-CASE-GSC-11353-1] c 74 N74-21304

Single reflector interference spectrometer and drive system therefor
[NASA-CASE-NPO-11932-1] c 35 N74-23040

Strain gauge ambiguity sensor for segmented mirror active optical system
[NASA-CASE-MFS-20506-1] c 35 N75-12273

Optical alignment device
[NASA-CASE-ARC-10932-1] c 74 N76-22993

Visual examination apparatus
[US-PATENT-RE-28,921] c 52 N76-30793

Optical instrument employing reticle having preselected visual response pattern formed thereon
[NASA-CASE-ARC-10976-1] c 74 N77-22950

Opto-mechanical subsystem with temperature compensation through isothermal design
[NASA-CASE-GSC-12059-1] c 35 N77-27366

Method and apparatus for producing an image from a transparent object
[NASA-CASE-GSC-11989-1] c 74 N77-28932

Method of treating the surface of a glass member
[NASA-CASE-GSC-12110-1] c 27 N77-32308

Process for producing a well-adhered durable optical coating on an optical plastic substrate --- abrasion resistant polymethyl methacrylate lenses
[NASA-CASE-ARC-11039-1] c 74 N78-32854

Water system virus detection
[NASA-CASE-MSC-16098-1] c 51 N79-10693

Method of forming a sharp edge on an optical device
[NASA-CASE-GSC-12348-1] c 74 N80-24149

Heat reflecting field stop
[NASA-CASE-LAR-12443-1] c 74 N82-19030

Tool for releasing optical elements
[NASA-CASE-GSC-12794-1] c 37 N83-12434

Rhomboid prism pair for rotating the plane of parallel light beams
[NASA-CASE-ARC-11311-1] c 74 N83-13978

Optical system
[NASA-CASE-NPO-15801-1] c 74 N83-25541

High speed multi focal plane optical system
[NASA-CASE-GSC-12683-1] c 74 N83-36898

High-temperature, high-pressure optical cell
[NASA-CASE-MFS-26000-1] c 74 N84-16986

OPTICAL FILTERS

High temperature lens construction Patent
[NASA-CASE-XNP-04111] c 14 N71-15622

Method and apparatus for eliminating coherent noise in a coherent energy imaging system without destroying spatial coherence
[NASA-CASE-GSC-11133-1] c 23 N72-11568

Optical noise suppression device and method --- laser light exposing film
[NASA-CASE-MSC-12640-1] c 74 N76-31998

System for producing chroma signals
[NASA-CASE-MSC-14683-1] c 74 N77-18893

Optical conversion method --- for spacecraft television
[NASA-CASE-MSC-12618-1] c 74 N78-17865

Partial polarizer filter
[NASA-CASE-GSC-12225-1] c 74 N79-14891

OPTICAL GYROSCOPES

Optical gyroscope system
[NASA-CASE-NPO-14258-1] c 35 N81-33448

OPTICAL HETERODYNING

Multispectral imaging system
[NASA-CASE-MSC-12404-1] c 23 N73-13661

Gregorian all-reflective optical system
[NASA-CASE-GSC-12058-1] c 74 N77-26942

Wideband heterodyne receiver for laser communication system
[NASA-CASE-GSC-12053-1] c 32 N77-28346

OPTICAL MEASUREMENT

Passive optical wind and turbulence detection system Patent
[NASA-CASE-XMF-14032] c 20 N71-16340

Ellipsoidal mirror reflectometer including means for averaging the radiation reflected from the sample Patent
[NASA-CASE-XGS-05291] c 23 N71-16341

Single reflector interference spectrometer and drive system therefor
[NASA-CASE-NPO-11932-1] c 35 N74-23040

Hybrid holographic non-destructive test system
[NASA-CASE-MFS-23114-1] c 38 N78-32447

Plural output optometric sample cell and analysis system
[NASA-CASE-NPO-10233-1] c 74 N78-33913

Rotary target V-block --- aligning wind tunnel apparatus for optical measurement
[NASA-CASE-LAR-12007-2] c 74 N79-25876

Apparatus for fiber optic liquid level sensing
[NASA-CASE-MSC-18674-1] c 74 N81-24907

Film advance indicator
[NASA-CASE-LAR-12474-1] c 35 N82-26628

Interferometric angle monitor
[NASA-CASE-GSC-12614-1] c 74 N83-32577

Optical multiple sample vacuum integrating sphere
[NASA-CASE-GSC-12849-1] c 74 N84-15960

Rotary target V-block
[NASA-CASE-LAR-12007-3] c 35 N84-16523

OPTICAL MEASURING INSTRUMENTS

Optically pumped resonance magnetometer for determining vectoral components in a spatial coordinate system Patent
[NASA-CASE-XGS-04879] c 14 N71-20428

Optical machine tool alignment indicator Patent
[NASA-CASE-XAC-09489-1] c 15 N71-26673

Optical systems having spatially invariant outputs
[NASA-CASE-ERC-10248] c 14 N72-17323

Optical probing of supersonic flows with statistical correlation
[NASA-CASE-MFS-20642] c 14 N72-21407

Multiparameter vision testing apparatus
[NASA-CASE-MSC-13601-2] c 54 N75-27759

Noncontacting method for measuring angular deflection
[NASA-CASE-LAR-12178-1] c 74 N80-21138

Visible and infrared polarization ratio spectrophotometer
[NASA-CASE-LAR-12285-1] c 35 N80-28687

Interferometer
[NASA-CASE-NPO-14502-1] c 74 N81-17888

Focal plane array optical proximity sensor
[NASA-CASE-NPO-15155-1] c 74 N81-22894

Optical crystal temperature gauge with fiber optic connections
[NASA-CASE-MSC-18627-1] c 74 N82-30071

Optical fiber tactile sensor
[NASA-CASE-NPO-15375-1] c 74 N84-11921

OPTICAL PATHS

Optical instruments
[NASA-CASE-MSC-14096-1] c 74 N74-15095

Large volume multiple-path nuclear pumped laser
[NASA-CASE-LAR-12592-1] c 36 N82-13415

OPTICAL PROPERTIES

Optical torqueometer Patent
[NASA-CASE-XLE-00503] c 14 N70-34818

Quasi-optical microwave component Patent
[NASA-CASE-ERC-10011] c 07 N71-29065

Light sensor
[NASA-CASE-NPO-11311] c 14 N72-25414

Light direction sensor
[NASA-CASE-NPO-11201] c 14 N72-27409

Device and method for determining X ray reflection efficiency of optical surfaces
[NASA-CASE-MFS-20243] c 23 N73-13662

Formation of star tracking reticles
[NASA-CASE-GSC-11188-3] c 74 N74-20008

Optically actuated two position mechanical mover
[NASA-CASE-NPO-13105-1] c 37 N74-21060

Modification of the electrical and optical properties of polymers --- ion irradiation to create texture
[NASA-CASE-LEW-13027-1] c 27 N80-24437

OPTICAL PUMPING

Optical pump and driver system for lasers
[NASA-CASE-ERC-10283] c 16 N72-25485

Laser head for simultaneous optical pumping of several dye lasers --- with single flash lamp
[NASA-CASE-LAR-11341-1] c 36 N75-19655

Stabilization of He2(a 3 Sigma u+ molecules in liquid helium by optical pumping for vacuum UV laser 6
[NASA-CASE-NPO-13993-1] c 72 N79-13826

Off-axis coherently pumped laser
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[NASA-CASE-XLA-04980] c 09 N69-27422
Radiation resistant silicon semiconductor devices Patent
[NASA-CASE-XGS-07801] c 09 N71-12513
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Switchable beamwidth monopulse method and system
[NASA-CASE-GSC-11924-1] c 33 N76-27472
Telescoping columns --- parabolic antenna support
[NASA-CASE-LAR-12195-1] c 31 N81-27324
Focal axis resolver for offset reflector antennas
[NASA-CASE-GSC-12630-1] c 33 N83-36355

PARABOLIC REFLECTORS

Parabolic reflector horn feed with spillover correction
Patent
[NASA-CASE-XNP-00540] c 09 N70-35382
Foldable solar concentrator Patent
[NASA-CASE-XLA-04622] c 03 N70-41580
Collapsible reflector Patent
[NASA-CASE-XMS-03454] c 09 N71-20658
Plural beam antenna
[NASA-CASE-GSC-11013-1] c 09 N73-19234
Composite antenna feed
[NASA-CASE-GSC-11046-1] c 07 N73-28013
Single frequency, two feed dish antenna having
switchable beamwidth
[NASA-CASE-GSC-11968-1] c 32 N76-15329
Sun tracking solar energy collector
[NASA-CASE-NPO-13921-1] c 44 N79-14526
Horizontally mounted solar collector
[NASA-CASE-MFS-23349-1] c 44 N79-23481
Solar concentrator
[NASA-CASE-MFS-23727-1] c 44 N80-14473
Apparatus for and method of compensating dynamic
unbalance
[NASA-CASE-GSC-12550-1] c 37 N81-22358

PARABOLOID MIRRORS

Optical data processing using paraboloidal mirror
segments
[NASA-CASE-GSC-11296-1] c 23 N73-30666
Three mirror glancing incidence system for X-ray
telescope
[NASA-CASE-MFS-21372-1] c 74 N74-27866
Multiple-beam, high-power, precision pointing antenna
system
[NASA-CASE-NPO-15406-1] c 33 N82-12345

PARACHUTE DESCENT

Parachute glider Patent
[NASA-CASE-XLA-00898] c 02 N70-36804
Vehicle parachute and equipment jettison system
Patent
[NASA-CASE-XLA-00195] c 02 N70-38009
Line cutter Patent
[NASA-CASE-XMS-04072] c 15 N70-42017
Vortex breach high pressure gas generator
[NASA-CASE-LAR-10549-1] c 31 N73-13898

PARACHUTE FABRICS

Lightweight, variable solidity knitted parachute fabric ---
for aerodynamic decelerators
[NASA-CASE-LAR-10776-1] c 02 N74-10034
Method for refurbishing and processing parachutes
[NASA-CASE-KSC-11042-1] c 09 N82-29330

PARACHUTES

System for stabilizing torque between a balloon and
gondola
[NASA-CASE-GSC-11077-1] c 02 N73-13008
Deploy/release system --- model aircraft flight control
[NASA-CASE-LAR-11575-1] c 02 N76-16014
System and method for refurbishing and processing
parachutes --- monorial conveyor system
[NASA-CASE-KSC-11042-2] c 02 N81-26073
Method for refurbishing and processing parachutes
[NASA-CASE-KSC-11042-1] c 09 N82-29330
Line hook with loop expander
[NASA-CASE-LAR-12875-1] c 37 N83-20156
Extended moment arm anti-spin device
[NASA-CASE-LAR-12979-1] c 02 N83-29173
Dual towline anti-spin device --- for flight tests
[NASA-CASE-LAR-13076-1] c 05 N83-34934

PARAGLIDERS

Parachute glider Patent
[NASA-CASE-XLA-00898] c 02 N70-36804

PARALLAX

Projection system for display of parallax and
perspective
[NASA-CASE-MFS-23194-1] c 35 N78-17357

PARALLEL PLATES

Parallel plate viscometer Patent
[NASA-CASE-XNP-09462] c 14 N71-17584

Dynamic capacitor having a peripherally driven element
and system incorporating the same
[NASA-CASE-XNP-02899-1] c 33 N79-21265

Multiple plate hydrostatic viscous damper
[NASA-CASE-LEW-12445-1] c 37 N81-22360

PARALLEL PROCESSING (COMPUTERS)

Digital data reformatter/deserializer
[NASA-CASE-NPO-13676-1] c 60 N79-20751
Massively parallel processor computer
[NASA-CASE-GSC-12223-1] c 60 N83-25378
Memory-based parallel data output controller
[NASA-CASE-GSC-12447-2] c 17 N83-29302

PARAMETRIC AMPLIFIERS

Parametric amplifiers with idler circuit feedback
[NASA-CASE-LAR-10253-1] c 09 N72-25258
Millimeter wave pumped parametric amplifier
[NASA-CASE-GSC-11617-1] c 33 N74-32660

PARAMETRIC FREQUENCY CONVERTERS

Method and apparatus for quadriphase-shift-key and
linear phase modulation
[NASA-CASE-NPO-14444-1] c 33 N81-15192

PARAWINGS

Wing deployment method and apparatus Patent
[NASA-CASE-XMS-00907] c 02 N70-41630

PARKING

Automated multi-level vehicle parking system
[NASA-CASE-NPO-13058-1] c 37 N77-22480

PARTIAL PRESSURE

Vapor pressure measuring system and method Patent
[NASA-CASE-XMS-01618] c 14 N71-20741

PARTICLE ACCELERATION

Molecular beam velocity selector Patent
[NASA-CASE-XLE-01533] c 11 N71-10777
Dust particle injector for hypervelocity accelerators
Patent
[NASA-CASE-XGS-06628] c 24 N71-16213

PARTICLE ACCELERATOR TARGETS

Dispensing targets for ion beam particle generators
[NASA-CASE-NPO-13112-1] c 73 N74-26767
Deuteron pass through target --- neutron emitting
target
[NASA-CASE-LEW-11866-1] c 72 N76-15860
Closed loop spray cooling apparatus --- for particle
accelerator targets
[NASA-CASE-LEW-11981-1] c 31 N78-17237

PARTICLE BEAMS

Particle beam measurement apparatus using beam
kinetic energy to change the heat sensitive resistance of
the detection probe Patent
[NASA-CASE-XLE-00243] c 14 N70-38602
Doppler shift system --- system for measuring velocities
of radiating particles
[NASA-CASE-HQN-10740-1] c 72 N74-19310

PARTICLE COLLISIONS

Particle detection apparatus including a ballistic
pendulum Patent
[NASA-CASE-XMS-04201] c 14 N71-22990

PARTICLE DENSITY (CONCENTRATION)

Micrometeoroid velocity measuring device Patent
[NASA-CASE-XLA-00495] c 14 N70-41332
Acoustic particle separation
[NASA-CASE-NPO-15559-1] c 71 N82-29112

PARTICLE DIFFUSION

Acoustic particle separation
[NASA-CASE-NPO-15559-1] c 71 N82-29112

PARTICLE EMISSION

Extended area semiconductor radiation detectors and
a novel readout arrangement Patent
[NASA-CASE-XGS-03230] c 14 N71-23401
Coincidence apparatus for detecting particles
[NASA-CASE-XLA-07813] c 14 N72-17328

PARTICLE ENERGY

Particle detection apparatus Patent
[NASA-CASE-XLA-00135] c 14 N70-33322
Particulate and aerosol detector
[NASA-CASE-LAR-11434-1] c 35 N76-22509

PARTICLE MASS

Cosmic dust analyzer
[NASA-CASE-MSC-13802-2] c 35 N76-15431
Microbalance --- for measuring particle mass
[NASA-CASE-MSC-11242] c 35 N78-17358

PARTICLE MOTION

Moving particle composition analyzer
[NASA-CASE-GSC-11889-1] c 35 N76-16393

PARTICLE PRECIPITATION

Acoustic agglomeration methods and apparatus
[NASA-CASE-NPO-15466-1] c 71 N82-27087

PARTICLE PRODUCTION

Production of I-123
[NASA-CASE-LEW-11390-3] c 25 N76-29379

PARTICLE SIZE DISTRIBUTION

Micropacked column for a chromatographic system
[NASA-CASE-XNP-04816] c 06 N89-39936
Apparatus for making a metal slurry product Patent
[NASA-CASE-XLE-00010] c 15 N70-33382

PAYLOAD RETRIEVAL (STS)

Method of producing refractory composites containing
tantalum carbide, hafnium carbide, and hafnium boride
Patent

[NASA-CASE-XLE-03940] c 18 N71-26153

Grain refinement control in TIG arc welding
[NASA-CASE-MSC-19095-1] c 37 N75-19683

Apparatus for handling micron size range particulate
material
[NASA-CASE-NPO-10151] c 37 N78-17386

Frequency-scanning particle size spectrometer
[NASA-CASE-NPO-13606-2] c 35 N80-18364

Process for preparation of large-particle-size
monodisperse latexes
[NASA-CASE-MFS-25000-1] c 25 N81-19242

Polyvinyl alcohol battery separator containing inert filler
--- alkaline batteries
[NASA-CASE-LEW-13556-1] c 44 N81-27615

Acoustic particle separation
[NASA-CASE-NPO-15559-1] c 71 N82-29112

Powder fed sheared dispersal particle generator
[NASA-CASE-LAR-12785-1] c 37 N84-16561

PARTICLE TRAJECTORIES

Micrometeoroid velocity and trajectory analyzer
[NASA-CASE-GSC-11892-1] c 35 N76-15433

Direction sensitive laser velocimeter --- determining the
direction of particles using a helium-neon laser
[NASA-CASE-LAR-12177-1] c 36 N81-24422

PARTICLES

Soil particles separator, collector and viewer Patent
[NASA-CASE-XNP-09770] c 15 N71-20440

Apparatus for producing metal powders
[NASA-CASE-XLE-06461-2] c 17 N72-28535

Particle parameter analyzing system --- x-y plotter circuits
and display
[NASA-CASE-XLE-06094] c 33 N78-17293

Surfactant-assisted liquefaction of particulate
carbonaceous substances
[NASA-CASE-NPO-13904-1] c 25 N79-11152

PARTICULATE SAMPLING

Apparatus for sampling particulates in gases
[NASA-CASE-HQN-10037-1] c 14 N73-27376

Electrophoretic sample insertion --- device for uniformly
distributing samples in flow path
[NASA-CASE-MFS-21395-1] c 25 N74-26948

Sampler of gas borne particles
[NASA-CASE-NPO-13396-1] c 35 N76-18401

Fine particulate capture device
[NASA-CASE-LEW-11583-1] c 35 N79-17192

Biocontamination and particulate detection system
[NASA-CASE-NPO-13953-1] c 35 N79-28527

Particle analyzing method and apparatus
[NASA-CASE-NPO-15292-1] c 35 N83-27184

PASSAGEWAYS

Inflatable tether Patent
[NASA-CASE-XMS-10993] c 15 N71-28936

Vortex generating flow passage design for increased
film cooling effectiveness
[NASA-CASE-LEW-14039-1] c 34 N84-20782

PASSENGERS

Ride quality meter
[NASA-CASE-LAR-12882-1] c 35 N84-12445

PASSIVE SATELLITES

Passive communication satellite Patent
[NASA-CASE-XLA-00210] c 30 N70-40309

Method and apparatus for determining electromagnetic
characteristics of large surface area passive reflectors
Patent
[NASA-CASE-XGS-02608] c 07 N70-41678

Method of making an inflatable panel Patent
[NASA-CASE-XLA-03497] c 15 N71-23052

PATENT APPLICATIONS

Chemical approach for controlling nadamide cure
temperature and rate
[NASA-CASE-LEW-13770-1] c 27 N83-13258

PATENTS

Constant magnification optical tracking system
[NASA-CASE-NPO-14813-1] c 74 N82-24072

Method for depositing an oxide coating
[NASA-CASE-LEW-13131-1] c 44 N83-10494

High stability amplifier
[NASA-CASE-GSC-12646-1] c 33 N83-34191

PATIENTS

Stretcher Patent
[NASA-CASE-XMF-06589] c 05 N71-23159

PATTERN RECOGNITION

Surface roughness detector Patent
[NASA-CASE-XLA-00203] c 14 N70-34161

Auditory display for the blind
[NASA-CASE-HQN-10832-1] c 71 N74-21014

PAYLOAD RETRIEVAL (STS)

Simulator method and apparatus for practicing the
mating of an observer-controlled object with a target
[NASA-CASE-MFS-23052-2] c 74 N79-13855

Satellite retrieval system
[NASA-CASE-MFS-25403-1] c 18 N83-29303

PAYLOADS

- Foam generator Patent
[NASA-CASE-XLA-00838] c 03 N70-36778
- Spacecraft separation system for spinning vehicles and/or payloads Patent
[NASA-CASE-XLA-02132] c 31 N71-10582
- Payload/burned-out motor case separation system Patent
[NASA-CASE-XLA-05369] c 31 N71-15687
- Velocity package Patent
[NASA-CASE-XLA-01339] c 31 N71-15692
- Omnidirectional multiple impact landing system Patent
[NASA-CASE-XLA-09881] c 31 N71-16085
- Zero gravity apparatus Patent
[NASA-CASE-MFY-06515] c 14 N71-23227
- PCM TELEMETRY**
Variable time constant smoothing circuit Patent
[NASA-CASE-XGS-01983] c 10 N70-41964
- Data transfer system Patent
[NASA-CASE-NPO-12107] c 08 N71-27255
- High speed direct binary-to-binary coded decimal converter
[NASA-CASE-KSC-10326] c 08 N72-21197
- PEELING**
Wire stripper
[NASA-CASE-FRC-10111-1] c 37 N79-10419
- Elastomer toughened polyimide adhesives
[NASA-CASE-LAR-12775] c 27 N83-29390
- PEENING**
Method of coating a substrate with a rapidly solidified metal
[NASA-CASE-GSC-12880-1] c 26 N84-20670
- PELLETS**
Support structure for irradiated elements Patent
[NASA-CASE-XNP-06031] c 15 N71-15606
- Contactless pellet fabrication
[NASA-CASE-NPO-15592-1] c 71 N84-16940
- PELTIER EFFECTS**
Protection for energy conversion systems
[NASA-CASE-XGS-04808] c 03 N69-25146
- Memory metal actuator --- for use in electromechanical servocontrol systems
[NASA-CASE-NPO-15960-1] c 37 N83-36485
- PENETRANTS**
Dye penetrant for surfaces subsequently contacted by liquid oxygen Patent
[NASA-CASE-XMF-02221] c 18 N71-27170
- PENETRATION**
Method and device for detection of surface discontinuities or defects
[NASA-CASE-MSC-14187-1] c 35 N74-32879
- Fire extinguishing apparatus having a slidable mass for a penetrator nozzle --- for penetrating aircraft and shuttle orbiter skin
[NASA-CASE-KSC-11064-1] c 31 N81-14137
- PENETROMETERS**
Lunar penetrometer Patent
[NASA-CASE-XLA-00934] c 14 N71-22765
- Self-recording portable soil penetrometer
[NASA-CASE-MFS-20774] c 14 N73-19420
- Soil penetrometer
[NASA-CASE-XNP-05530] c 14 N73-32321
- Penetrometer --- for determining load bearing characteristics of inclined surfaces
[NASA-CASE-NPO-11103-1] c 35 N77-27367
- Coal-shale interface detection
[NASA-CASE-MFS-23720-3] c 43 N79-25443
- PERCEPTION**
Method for measuring cutaneous sensory perception
[NASA-CASE-MSC-13609-1] c 05 N72-25122
- PERFLUORO COMPOUNDS**
Hydroxy terminated perfluoro ethers Patent
[NASA-CASE-NPO-10768] c 06 N71-27254
- Perfluoro polyether acyl fluorides
[NASA-CASE-NPO-10765] c 06 N72-20121
- Reaction of fluorine with polyperfluoropolyenes
[NASA-CASE-NPO-10862] c 06 N72-22107
- Silphenylenesiloxane polymers having in-chain perfluoroalkyl groups
[NASA-CASE-MFS-20979] c 06 N72-25151
- Polymers of perfluorobutadiene and method of manufacture
[NASA-CASE-NPO-10863-2] c 06 N72-25152
- Polyurethane resins from hydroxy terminated perfluoro ethers
[NASA-CASE-NPO-10768-2] c 06 N72-27144
- Polymerizable diislanols having in-chain perfluoroalkyl groups
[NASA-CASE-MFS-20979-2] c 06 N73-32030
- Perfluoro alkylene dioxy-bis-(4-phthalic anhydrides and oxy-bis-(perfluoroalkyleneoxyphthalic anhydrides
[NASA-CASE-MFS-22356-1] c 23 N75-30256
- Preparation of perfluorinated imidoylamidoximes --- for eventual preparation of heat and chemical resistant polymers
[NASA-CASE-ARC-11267-1] c 23 N80-26386

- Preparation of perfluorinated 1,2,4-oxadiazoles
[NASA-CASE-ARC-11267-2] c 23 N82-28353
- High performance channel injection sealant, invention abstract
[NASA-CASE-ARC-14408-1] c 27 N82-33523
- Fluoroether modified epoxy composites
[NASA-CASE-ARC-11418-1] c 24 N84-11213
- PERFLUOROALKANE**
Preparation of heterocyclic block copolymer omega-diamidoximes
[NASA-CASE-ARC-11060-1] c 27 N79-22300
- PERFORATED PLATES**
Process for glass coating an ion accelerator grid Patent
[NASA-CASE-LEW-10278-1] c 15 N71-28582
- PERFORATED SHELLS**
Method of fabricating an article with cavities --- with thin bottom walls
[NASA-CASE-LAR-10318-1] c 31 N74-18089
- PERFORMANCE PREDICTION**
Failure detection and control means for improved drift performance of a gimbaled platform system
[NASA-CASE-MFS-23551-1] c 04 N76-26175
- PERFORMANCE TESTS**
Frangible electrochemical cell
[NASA-CASE-XGS-10010] c 03 N72-15986
- Solar cell assembly test method
[NASA-CASE-NPO-10401] c 03 N72-20033
- Linear explosive comparison
[NASA-CASE-LAR-10800-1] c 33 N72-27959
- PERIODIC VARIATIONS**
Mount for continuously orienting a collector dish in a system adapted to perform both diurnal and seasonal solar tracking
[NASA-CASE-MFS-23267-1] c 35 N77-20401
- PERMEABILITY**
Ionene membrane separator
[NASA-CASE-NPO-11091] c 18 N72-22567
- System for detecting substructure microfractures and method therefore
[NASA-CASE-NPO-14192-1] c 39 N80-10507
- Dialysis system --- using ion exchange resin membranes permeable to urea molecules
[NASA-CASE-NPO-14101-1] c 52 N80-14687
- Geological assessment probe
[NASA-CASE-NPO-14558-1] c 46 N80-24906
- PEROXIDES**
Method of polymerizing perfluorobutadiene Patent application
[NASA-CASE-NPO-10447] c 06 N70-11252
- PERSPIRATION**
Method of making a perspiration resistant biopotential electrode
[NASA-CASE-MSC-90153-2] c 05 N72-25120
- Sweat collection capsule
[NASA-CASE-ARC-11031-1] c 52 N81-29763
- PERTURBATION**
Gaseous control system for nuclear reactors
[NASA-CASE-XLE-04599] c 22 N72-20597
- PERTURBATION THEORY**
Dual wavelength scanning Doppler velocimeter --- without perturbation of flow fields
[NASA-CASE-ARC-10637-1] c 35 N75-16783
- PHASE COHERENCE**
Signal phase estimator
[NASA-CASE-NPO-11203] c 10 N72-20224
- Coherent receiver employing nonlinear coherence detection for carrier tracking
[NASA-CASE-NPO-11921-1] c 32 N74-30523
- PHASE CONTROL**
Rapid sync acquisition system Patent
[NASA-CASE-NPO-10214] c 10 N71-26577
- Wideband VCO with high phase stability Patent
[NASA-CASE-XLA-03893] c 10 N71-27271
- Induction motor control system with voltage controlled oscillator circuit
[NASA-CASE-MFS-21465-1] c 10 N73-32145
- System for generating timing and control signals
[NASA-CASE-NPO-13125-1] c 33 N75-19519
- Digital numerically controlled oscillator
[NASA-CASE-MSC-18747-1] c 33 N81-17349
- Method and apparatus for self-calibration and phasing of array antenna
[NASA-CASE-NPO-15920-1] c 32 N82-33593
- Combinational logic for generating gate drive signals for phase control rectifiers
[NASA-CASE-MFS-25208-1] c 33 N83-10345
- System for controlled acoustic rotation of objects
[NASA-CASE-NPO-15522-1] c 71 N83-32516
- PHASE DEMODULATORS**
Phase demodulation system with two phase locked loops Patent
[NASA-CASE-XNP-00777] c 10 N71-19469
- Linear phase demodulator including a phase locked loop with auxiliary feedback loop
[NASA-CASE-GSC-12018-1] c 33 N77-14334

PHASE DETECTORS

- Phase detector assembly Patent
[NASA-CASE-XMF-00701] c 09 N70-40272
- Bi-polar phase detector and corrector for split phase PCM data signals Patent
[NASA-CASE-XGS-01590] c 07 N71-12392
- High speed phase detector Patent
[NASA-CASE-XNP-01306-2] c 09 N71-24596
- Phase protection system for ac power lines
[NASA-CASE-MSC-17832-1] c 33 N74-14956
- Low distortion automatic phase control circuit --- voltage controlled phase shifter
[NASA-CASE-MFS-21671-1] c 33 N74-22885
- Correlation type phase detector --- with time correlation integrator for frequency multiplexed signals
[NASA-CASE-GSC-11744-1] c 33 N75-26243
- Impact position detector for outer space particles
[NASA-CASE-GSC-11829-1] c 35 N75-27331
- Frequency discriminator and phase detector circuit
[NASA-CASE-NPO-11515-1] c 33 N77-13315
- Phase substitution of spare converter for a failed one of parallel phase staggered converters
[NASA-CASE-NPO-13812-1] c 33 N77-30365
- Apparatus and method for stabilized phase detection for binary signal tracking loops
[NASA-CASE-MSC-16461-1] c 33 N79-11313
- Receiving and tracking phase modulated signals
[NASA-CASE-MSC-16170-2] c 32 N81-16338
- Phase sensitive guidance sensor for wire-following vehicles
[NASA-CASE-NPO-15341-1] c 33 N82-12346
- Phase detector for three-phase power factor controller
[NASA-CASE-MFS-25854-1] c 33 N83-17804
- High stability buffered phase comparator
[NASA-CASE-GSC-12645-1] c 33 N84-16454
- PHASE DEVIATION**
System for stabilizing cable phase delay utilizing a coaxial cable under pressure
[NASA-CASE-NPO-13138-1] c 33 N74-17927
- PHASE LOCK DEMODULATORS**
Compensating bandwidth switching transients in an amplifier circuit Patent
[NASA-CASE-XNP-01107] c 10 N71-28859
- PHASE LOCKED SYSTEMS**
Automatic acquisition system for phase-lock loop
[NASA-CASE-XGS-04994] c 09 N69-21543
- Phase-locked loop with sideband rejecting properties Patent
[NASA-CASE-XNP-02723] c 07 N70-41680
- Automatic frequency discriminators and control for a phase-lock loop providing frequency preset capabilities Patent
[NASA-CASE-XMF-08665] c 10 N71-19467
- Burst synchronization detection system Patent
[NASA-CASE-XMS-05605-1] c 10 N71-19468
- Phase demodulation system with two phase locked loops Patent
[NASA-CASE-XNP-00777] c 10 N71-19469
- Diversity receiving system with diversity phase lock Patent
[NASA-CASE-XGS-01222] c 10 N71-20841
- Phase locked phase modulator including a voltage controlled oscillator Patent
[NASA-CASE-XNP-05382] c 10 N71-23544
- Video sync processor Patent
[NASA-CASE-KSC-10002] c 10 N71-25865
- Transition tracking bit synchronization system
[NASA-CASE-NPO-10844] c 07 N72-20140
- Data-aided carrier tracking loops
[NASA-CASE-NPO-11282] c 10 N73-16205
- Filter for third order phase locked loops
[NASA-CASE-NPO-11941-1] c 10 N73-27171
- Receiver with an improved phase lock loop in a multichannel telemetry system with suppressed carrier
[NASA-CASE-NPO-11593-1] c 07 N73-28012
- Automatic carrier acquisition system
[NASA-CASE-NPO-11628-1] c 07 N73-30113
- Digital second-order phase-locked loop
[NASA-CASE-NPO-11905-1] c 33 N74-12887
- Phase-locked servo system --- for synchronizing the rotation of slip ring assembly
[NASA-CASE-MFS-22073-1] c 33 N75-13139
- Low speed phaselock speed control system --- for brushless dc motor
[NASA-CASE-GSC-11127-1] c 09 N75-24758
- Digital phase-locked loop
[NASA-CASE-GSC-11623-1] c 33 N75-25040
- Telemetry synchronizer
[NASA-CASE-GSC-11868-1] c 17 N76-22245
- Linear phase demodulator including a phase locked loop with auxiliary feedback loop
[NASA-CASE-GSC-12018-1] c 33 N77-14334
- Frequency translating phase conjugation circuit for active retrodirective antenna array --- microwave transmission
[NASA-CASE-NPO-14536-1] c 32 N81-14185

PN lock indicator for dithered PN code tracking loop
[NASA-CASE-NPO-14435-1] c 33 N81-33405

Discriminator aided phase lock acquisition for suppressed carrier signals
[NASA-CASE-NPO-14311-1] c 33 N82-29539

Pulsed phase locked loop strain monitor --- voltage controlled oscillators
[NASA-CASE-LAR-12772-1] c 33 N83-16626

Apparatus and method for tracking the fundamental frequency of an analog input signal
[NASA-CASE-ARC-11367-1] c 33 N83-21238

PHASE MODULATION

Phase quadrature-plural channel data transmission system Patent
[NASA-CASE-XAC-06302] c 08 N71-19763

Adaptive tracking notch filter system Patent
[NASA-CASE-XMF-01892] c 10 N71-22986

Phase locked phase modulator including a voltage controlled oscillator Patent
[NASA-CASE-XNP-05382] c 10 N71-23544

Phase multiplying electronic scanning system Patent
[NASA-CASE-NPO-10302] c 10 N71-26142

Phase modulator Patent
[NASA-CASE-MS-C-13201-1] c 07 N71-28429

Two carrier communication system with single transmitter
[NASA-CASE-NPO-11548] c 07 N73-26118

Decision feedback loop for tracking a polyphase modulated carrier
[NASA-CASE-NPO-13103-1] c 32 N74-20811

Modulator for tone and binary signals --- phase of modulation of tone and binary signals on carrier waves in communication systems
[NASA-CASE-GSC-11743-1] c 32 N75-24981

Phase modulating with odd and even finite power series of a modulating signal
[NASA-CASE-LAR-11607-1] c 32 N77-14292

Sweep group delay measurement
[NASA-CASE-NPO-13909-1] c 33 N78-25319

Quadrature demodulation
[NASA-CASE-GSC-12137-1] c 33 N78-32338

Closed loop solar array-ion thruster system with power control circuitry
[NASA-CASE-LEW-12780-1] c 20 N79-20179

Receiving and tracking phase modulated signals
[NASA-CASE-MS-C-16170-2] c 32 N81-16338

Baseband signal combiner for large aperture antenna array
[NASA-CASE-NPO-14641-1] c 32 N81-29308

Correlation spectrometer having high resolution and multiplexing capability
[NASA-CASE-NPO-15558-1] c 35 N82-26636

Integrating IR detector imaging systems
[NASA-CASE-NPO-15805-1] c 74 N83-20757

PHASE SHIFT

Bi-polar phase detector and corrector for split phase PCM data signals Patent
[NASA-CASE-XGS-01590] c 07 N71-12392

Electromagnetic polarization systems and methods Patent
[NASA-CASE-GSC-10021-1] c 09 N71-24595

Method and apparatus for frequency-division multiplex communications by digital phase shift of carrier
[NASA-CASE-NPO-11338] c 08 N72-25208

Time domain phase measuring apparatus
[NASA-CASE-GSC-12228-1] c 33 N79-10338

Phase-angle controller for Stirling engines
[NASA-CASE-NPO-14388-1] c 37 N81-17432

PHASE SHIFT CIRCUITS

Gyrator type circuit Patent
[NASA-CASE-XAC-10608-1] c 09 N71-12517

Phase shift circuit apparatus
[NASA-CASE-ARC-10269-1] c 10 N72-16172

Continuously variable voltage controlled phase shifter
[NASA-CASE-NPO-11129] c 09 N72-33204

Induction motor control system with voltage controlled oscillator circuit
[NASA-CASE-MFS-21465-1] c 10 N73-32145

Low distortion automatic phase control circuit --- voltage controlled phase shifter
[NASA-CASE-MFS-21671-1] c 33 N74-22885

Pseudonoise code tracking loop
[NASA-CASE-MS-C-18035-1] c 32 N81-15179

Fiber optic transmission line stabilization apparatus and method
[NASA-CASE-NPO-15036-1] c 74 N82-19029

PHASE SHIFT KEYING

Decision feedback loop for tracking a polyphase modulated carrier
[NASA-CASE-NPO-13103-1] c 32 N74-20811

Differential phase shift keyed communication system
[NASA-CASE-MS-C-14065-1] c 32 N74-26654

Differential phase shift keyed signal resolver
[NASA-CASE-MS-C-14066-1] c 33 N74-27705

Unbalanced quadrature demodulator
[NASA-CASE-MS-C-14840-1] c 32 N77-24331

Method and apparatus for quadriphase-shift-key and linear phase modulation
[NASA-CASE-NPO-14444-1] c 33 N81-15192

Digital demodulator
[NASA-CASE-LAR-12659-1] c 33 N82-26570

PHASE SWITCHING INTERFEROMETERS

Radar antenna system for acquisition and tracking Patent
[NASA-CASE-XMS-09610] c 07 N71-24625

PHASE TRANSFORMATIONS

Slug flow magnetohydrodynamic generator
[NASA-CASE-XLE-02083] c 03 N69-39983

Fluid dispensing apparatus and method Patent
[NASA-CASE-XLE-01182] c 27 N71-15635

PHASE VELOCITY

Ultrasonic calibration device --- for producing changes in acoustic attenuation and phase velocity
[NASA-CASE-LAR-11435-1] c 35 N76-15432

PHASED ARRAYS

Phase control circuits using frequency multiplications for phased array antennas
[NASA-CASE-ERC-10285] c 10 N73-16206

Phased array antenna control
[NASA-CASE-MS-C-14939-1] c 32 N79-11264

Phase conjugation method and apparatus for an active retrodirective antenna array
[NASA-CASE-NPO-13641-1] c 32 N79-24210

Coaxial phased array antenna
[NASA-CASE-MS-C-16800-1] c 32 N81-14187

Multiple-beam, high-power, precision pointing antenna system
[NASA-CASE-NPO-15406-1] c 33 N82-12345

Spiral slotted phased antenna array
[NASA-CASE-MS-C-18532-1] c 32 N82-27558

Method and apparatus for self-calibration and phasing of array antenna
[NASA-CASE-NPO-15920-1] c 32 N82-33593

Electronic con scanning spacecraft communication system
[NASA-CASE-NPO-15899-1] c 32 N83-19970

PHENOLIC RESINS

Bonding method in the manufacture of continuous regression rate sensor devices
[NASA-CASE-LAR-10337-1] c 24 N75-30260

PHENOLS

Novel polymers and method of preparing same
[NASA-CASE-NPO-10998-1] c 06 N73-32029

Method and device for the detection of phenol and related compounds --- in an electrochemical cell
[NASA-CASE-LEW-12513-1] c 25 N79-22235

PHENYLS

The 1,1,1-triaryl-2,2,2-trifluoroethanes and process for their synthesis
[NASA-CASE-ARC-11097-1] c 25 N82-24312

PHONOCARDIOGRAPHY

Phonocardiogram simulator Patent
[NASA-CASE-XKS-10804] c 05 N71-24606

Vibrophonocardiograph Patent
[NASA-CASE-XFR-07172] c 05 N71-27234

PHOSPHATES

Thermal control coating Patent
[NASA-CASE-XLA-01995] c 18 N71-23047

PHOSPHAZENE

Process for the preparation of polycarbonylphosphazenes --- thermal insulation
[NASA-CASE-ARC-11176-2] c 27 N81-27271

Carbonylphosphazenes and their polymers --- thermal insulation
[NASA-CASE-ARC-11176-1] c 27 N82-18389

PHOSPHINES

Heat resistant polymers of oxidized styrylphosphine
[NASA-CASE-MS-C-14903-1] c 27 N78-32256

Compound oxidized styrylphosphine --- flame resistant vinyl polymers
[NASA-CASE-MS-C-14903-2] c 27 N80-10358

Heat resistant polymers of oxidized styrylphosphine
[NASA-CASE-MS-C-14903-3] c 27 N80-24438

Phosphorus-containing imide resins
[NASA-CASE-ARC-11368-1] c 27 N83-31854

Elastomer-modified phosphorus-containing imide resins
[NASA-CASE-ARC-11400-1] c 27 N84-14322

PHOSPHONITRILES

Metal containing polymers from cyclic tetrameric phenylphosphonitrimides Patent
[NASA-CASE-HON-10364] c 06 N71-27363

PHOSPHORS

High contrast cathode ray tube
[NASA-CASE-ERC-10468] c 09 N72-20206

Thin wire pointing method
[NASA-CASE-NPO-15789-1] c 31 N83-19947

PHOSPHORUS COMPOUNDS

Phosphorus-containing bisimide resins
[NASA-CASE-ARC-11321-1] c 27 N81-27272

PHOSPHORUS POLYMERS

Process for the preparation of polycarbonylphosphazenes --- thermal insulation
[NASA-CASE-ARC-11176-2] c 27 N81-27271

Carbonylphosphazenes and their polymers --- thermal insulation
[NASA-CASE-ARC-11176-1] c 27 N82-18389

PHOTOABSORPTION

Photomechanical transducer
[NASA-CASE-NPO-14363-1] c 39 N81-25400

PHOTOCATHODES

Photoelectric energy spectrometer Patent
[NASA-CASE-XNP-04161] c 14 N71-15599

III-V photocathode with nitrogen doping for increased quantum efficiency
[NASA-CASE-NPO-12134-1] c 33 N76-31409

PHOTOCHEMICAL REACTIONS

Apparatus for photon excited catalysis
[NASA-CASE-NPO-13566-1] c 25 N77-32255

Apparatus for extraction and separation of a preferentially photo-dissociated molecular isotope into positive and negative ions by means of an electric field
[NASA-CASE-LEW-12465-1] c 25 N78-25148

Violet process for producing flame resistant polyamides and products produced thereby --- protective clothing for high oxygen environments
[NASA-CASE-MS-C-16074-1] c 27 N80-26446

PHOTOCONDUCTIVE CELLS

Two-dimensional radiant energy array computers and computing devices
[NASA-CASE-GSC-11839-1] c 60 N77-14751

Plural output optometric sample cell and analysis system
[NASA-CASE-NPO-10233-1] c 74 N78-33913

Photocapacitive image converter
[NASA-CASE-LAR-12513-1] c 44 N82-32841

PHOTOCONDUCTIVITY

Photoetching of metal-oxide layers
[NASA-CASE-ERC-10108] c 06 N72-21094

PHOTOCONDUCTORS

Electronic divider and multiplier using photocells Patent
[NASA-CASE-XFR-05637] c 09 N71-19480

PHOTODIODES

Shock isolator for operating a diode laser on a closed-cycle refrigerator
[NASA-CASE-GSC-12297-1] c 37 N79-28549

PHOTODISSOCIATION

Apparatus for extraction and separation of a preferentially photo-dissociated molecular isotope into positive and negative ions by means of an electric field
[NASA-CASE-LEW-12465-1] c 25 N78-25148

PHOTOELECTRIC CELLS

Sun tracker with rotatable plane-parallel plate and two photocells Patent
[NASA-CASE-XGS-01159] c 21 N71-10678

Method of and device for determining the characteristics and flux distribution of micrometeorites --- scanning puncture holes in sheet material with photoelectric cell
[NASA-CASE-NPO-12127-1] c 91 N74-13130

Noncontacting method for measuring angular deflection
[NASA-CASE-LAR-12178-1] c 74 N80-21138

Photoelectric detection system --- manufacturing automation
[NASA-CASE-MFS-23776-1] c 33 N82-28545

Integrated opto-electronic laser beam deflector position detector
[NASA-CASE-NPO-15943-1] c 36 N83-20092

PHOTOELECTRIC EFFECT

Photoelectric energy spectrometer Patent
[NASA-CASE-XNP-04161] c 14 N71-15599

PHOTOELECTRIC EMISSION

High resolution threshold photoelectron spectroscopy by electron attachment
[NASA-CASE-NPO-14078-1] c 72 N80-14877

PHOTOELECTRIC GENERATORS

Solar energy converter using surface plasma waves
[NASA-CASE-LEW-13827-1] c 44 N83-26258

PHOTOELECTRIC MATERIALS

Light radiation direction indicator with a baffle of two parallel grids
[NASA-CASE-XNP-03930] c 14 N69-24331

Use of thin film light detector
[NASA-CASE-NPO-11432-2] c 35 N74-15090

PHOTOELECTRICITY

Liquid crystal light valve structures
[NASA-CASE-MS-C-20036-1] c 76 N84-22457

PHOTOELECTROCHEMICAL DEVICES

Method for determining the point of zero zeta potential of semiconductor materials
[NASA-CASE-LAR-12893-1] c 33 N82-26573

Photoelectrochemical electrodes
[NASA-CASE-NPO-15458-1] c 25 N84-12262

PHOTOELECTRON SPECTROSCOPY

- Photoelectron spectrometer with means for stabilizing sample surface potential
[NASA-CASE-NPO-13772-1] c 35 N78-10429
- High resolution threshold photoelectron spectroscopy by electron attachment
[NASA-CASE-NPO-14078-1] c 72 N80-14877
- Low intensity X-ray and gamma-ray spectrometer
[NASA-CASE-GSC-12587-1] c 35 N82-32659

PHOTOGRAPHIC EMULSIONS

- Method for applying photographic resists to otherwise incompatible substrates
[NASA-CASE-MSC-18107-1] c 27 N81-25209
- Method for retarding dye fading during archival storage of developed color photographic film --- inert atmosphere
[NASA-CASE-MFS-23250-1] c 35 N82-11432

PHOTOGRAPHIC EQUIPMENT

- Apparatus and method for protecting a photographic device Patent
[NASA-CASE-NPO-10174] c 14 N71-18465
- Method of treating the surface of a glass member
[NASA-CASE-GSC-12110-1] c 27 N77-32308
- System for forming a quadrified image comprising angularly related fields of view of a three dimensional object
[NASA-CASE-NPO-14219-1] c 74 N81-17886

PHOTOGRAPHIC FILM

- Film feed camera having a detent means Patent
[NASA-CASE-LAR-10686] c 14 N71-28935
- Exposure interlock for oscilloscope cameras
[NASA-CASE-LAR-10319-1] c 14 N73-32322
- Optical noise suppression device and method --- laser light exposing film
[NASA-CASE-MSC-12640-1] c 74 N78-31998
- Selective image area control of X-ray film exposure density
[NASA-CASE-NPO-13808-1] c 35 N78-15461
- Method for retarding dye fading during archival storage of developed color photographic film --- inert atmosphere
[NASA-CASE-MFS-23250-1] c 35 N82-11432

PHOTOGRAPHIC MEASUREMENT

- Means and method of measuring viscoelastic strain Patent
[NASA-CASE-XNP-01153] c 32 N71-17645
- Impact measuring technique
[NASA-CASE-LAR-10913] c 14 N72-16282
- TV fatigue crack monitoring system
[NASA-CASE-LAR-11490-1] c 39 N78-16387

PHOTOGRAPHIC PROCESSING

- Method and apparatus for producing an image from a transparent object
[NASA-CASE-GSC-11989-1] c 74 N77-28932
- Method of obtaining intensified image from developed photographic films and plates
[NASA-CASE-MFS-23461-1] c 35 N79-10389

PHOTOGRAPHIC PROCESSING EQUIPMENT

- Drying apparatus for photographic sheet material
[NASA-CASE-GSC-11074-1] c 14 N73-28489

PHOTOGRAPHIC RECORDING

- Method of obtaining permanent record of surface flow phenomena Patent
[NASA-CASE-XLA-01353] c 14 N70-41366
- Focused image holography with extended sources Patent
[NASA-CASE-ERC-10019] c 16 N71-15551

- Recording and reconstructing focused image holograms Patent
[NASA-CASE-ERC-10017] c 16 N71-15567

- Method and means for recording and reconstructing holograms without use of a reference beam Patent
[NASA-CASE-ERC-10020] c 16 N71-26154

- Multiple image storing system for high speed projectile holography
[NASA-CASE-MFS-20596] c 14 N72-17324

- Phototropic composition of matter
[NASA-CASE-XGS-03736] c 14 N72-22443

- Method for determining thermo-physical properties of specimens --- photographic recording of changes in thin film phase-change temperature indicating material in wind tunnel
[NASA-CASE-LAR-11053-1] c 25 N74-18551

PHOTOGRAPHY

- System for forming a quadrified image comprising angularly related fields of view of a three dimensional object
[NASA-CASE-NPO-14219-1] c 74 N81-17886
- X-ray determination of parts alignment
[NASA-CASE-MSC-20418-1] c 37 N83-17882

PHOTOIONIZATION

- A multichannel photoionization chamber for absorption analysis Patent
[NASA-CASE-ERC-10044-1] c 14 N71-27090

PHOTOLYSIS

- Solar photolysis of water
[NASA-CASE-NPO-13675-1] c 44 N77-32580
- Solar photolysis of water
[NASA-CASE-NPO-14126-1] c 44 N79-11470

PHOTOMAPPING

- Window defect planar mapping technique
[NASA-CASE-MSC-19442-1] c 74 N77-10899

PHOTOMASKS

- Method for applying photographic resists to otherwise incompatible substrates
[NASA-CASE-MSC-18107-1] c 27 N81-25209

PHOTOMECHANICAL EFFECT

- Photomechanical transducer
[NASA-CASE-NPO-14363-1] c 39 N81-25400

PHOTOMETERS

- Interferometer direction sensor Patent
[NASA-CASE-NPO-10320] c 14 N71-17655
- Method and device for determining battery state of charge Patent
[NASA-CASE-NPO-10194] c 03 N71-20407
- Light position locating system Patent
[NASA-CASE-XNP-01059] c 23 N71-21821
- Fluid flow meter with comparator reference means Patent
[NASA-CASE-XGS-01331] c 14 N71-22996
- Two color horizon sensor
[NASA-CASE-ERC-10174] c 14 N72-25409
- Infrared detectors
[NASA-CASE-LAR-10728-1] c 14 N73-12445
- Chromato-fluorographic drug detector --- device for detecting and recording fluorescent properties of materials
[NASA-CASE-ARC-10633-1] c 25 N74-26947
- The 2 deg/90 deg laboratory scattering photometer --- particulate refractivity in hydrosols
[NASA-CASE-GSC-12088-1] c 74 N78-13874
- Magneto-optic detection system with noise cancellation
[NASA-CASE-NPO-11954-1] c 35 N78-29421

PHOTOMICROGRAPHY

- Stereo photomicrography system
[NASA-CASE-LAR-10176-1] c 14 N72-20380
- Hand-held photomicroscope
[NASA-CASE-ARC-10468-1] c 14 N73-33361

PHOTOMULTIPLIER TUBES

- Canopus detector including automotive gain control of photomultiplier tube Patent
[NASA-CASE-XNP-03914] c 21 N71-10771
- Electronic divider and multiplier using photocells Patent
[NASA-CASE-XFR-05637] c 09 N71-19480
- Coincidence apparatus for detecting particles
[NASA-CASE-XLA-07813] c 14 N72-17328
- Method and apparatus for mapping the sensitivity of the face of a photodetector specifically a PMT
[NASA-CASE-LAR-10320-1] c 09 N72-23172
- Light direction sensor
[NASA-CASE-NPO-11201] c 14 N72-27409
- Photomultiplier circuit including means for rapidly reducing the sensitivity thereof --- and protection from radiation damage
[NASA-CASE-ARC-10593-1] c 33 N74-27682

PHOTON BEAMS

- Apparatus for photon excited catalysis
[NASA-CASE-NPO-13566-1] c 25 N77-32255

PHOTON-ELECTRON INTERACTION

- Means and method for calibrating a photon detector utilizing electron-photon coincidence
[NASA-CASE-NPO-15644-1] c 72 N82-24953

PHOTONS

- Solar cell collector
[NASA-CASE-LEW-12552-1] c 44 N78-25527
- Means and method for calibrating a photon detector utilizing electron-photon coincidence
[NASA-CASE-NPO-15644-1] c 72 N82-24953

PHOTOSENSITIVITY

- Photosensitive device to detect bearing deviation Patent
[NASA-CASE-XNP-00438] c 21 N70-35089
- Solar optical telescope dome control system Patent
[NASA-CASE-MSC-10966] c 14 N71-19568
- Method and apparatus for mapping the sensitivity of the face of a photodetector specifically a PMT
[NASA-CASE-LAR-10320-1] c 09 N72-23172
- Holography utilizing surface plasmon resonances
[NASA-CASE-MFS-22040-1] c 35 N74-26946
- Apparatus for calibrating an image dissector tube
[NASA-CASE-MFS-22208-1] c 33 N75-26244

PHOTOTRANSISTORS

- Phototransistor imaging system
[NASA-CASE-MFS-20809] c 23 N73-13660
- Phototransistor
[NASA-CASE-MFS-20407] c 09 N73-19235

PHOTOTROPISM

- Phototropic composition of matter
[NASA-CASE-XGS-03736] c 14 N72-22443

PHOTOVISCOELASTICITY

- Means and method of measuring viscoelastic strain Patent
[NASA-CASE-XNP-01153] c 32 N71-17645

PHOTOVOLTAIC CELLS

- Plurality of photosensitive cells on a pyramidal base for planetary trackers
[NASA-CASE-XNP-04180] c 07 N69-39736
- Light sensitive digital aspect sensor Patent
[NASA-CASE-XGS-00359] c 14 N70-34158
- Method of using photovoltaic cell using poly-N-vinylcarbazole complex Patent
[NASA-CASE-NPO-10373] c 03 N71-18698
- Use of thin film light detector
[NASA-CASE-NPO-11432-2] c 35 N74-15090
- Photovoltaic cell array
[NASA-CASE-MFS-22458-1] c 44 N77-10635
- Solar cells having integral collector grids
[NASA-CASE-LEW-12819-1] c 44 N79-11467
- Double-sided solar cell package
[NASA-CASE-NPO-14199-1] c 44 N79-25482
- Method of construction of a multi-cell solar array
[NASA-CASE-MFS-23540-1] c 44 N79-26475
- Solar cell with improved N-region contact and method of forming the same
[NASA-CASE-NPO-14205-1] c 44 N79-31752
- Method of fabricating a photovoltaic module of a substantially transparent construction
[NASA-CASE-NPO-14303-1] c 44 N80-18550
- Copper doped polycrystalline silicon solar cell
[NASA-CASE-NPO-14670-1] c 44 N81-19558
- Efficiency of silicon solar cells containing chromium
[NASA-CASE-NPO-15179-1] c 44 N82-26777
- Process and apparatus for growing a crystal ribbon --- for use in photovoltaic cells
[NASA-CASE-NPO-15629-1] c 44 N82-26779
- Method of making a high voltage V-groove solar cell
[NASA-CASE-LEW-13401-1] c 44 N82-29709
- High voltage planar multijunction solar cell
[NASA-CASE-LEW-13400-1] c 44 N82-31764
- Heat transparent high intensity high efficiency solar cell
[NASA-CASE-LEW-12892-1] c 44 N83-14692
- Miniature spectrally selective dosimeter
[NASA-CASE-LAR-12469-1] c 35 N83-21311
- Method of making macrocrystalline or single crystal semiconductive material and products produced thereby --- epitaxial substrates using low melting materials for photovoltaic cells
[NASA-CASE-NPO-15904-1] c 76 N83-21993
- GaAs Schottky barrier photo-responsive device and method of fabrication --- photovoltaic cells
[NASA-CASE-GSC-12816-1] c 76 N83-30268
- Cloud cover sensor
[NASA-CASE-NPO-14936-1] c 47 N83-32232
- Increased voltage photovoltaic cell
[NASA-CASE-NPO-16155-1] c 44 N84-20917
- Thermionic-photovoltaic energy converter
[NASA-CASE-LEW-14077-1] c 44 N84-20918

PHOTOVOLTAIC CONVERSION

- Thermionic-photovoltaic energy converter
[NASA-CASE-LEW-14077-1] c 44 N84-20918

PHOTOVOLTAIC EFFECT

- System for improving signal-to-noise ratio of a communication signal Patent Application
[NASA-CASE-MSC-12259-1] c 07 N70-12616
- Use of thin film light detector
[NASA-CASE-NPO-11432-2] c 35 N74-15090

PHTHALOCYANIN

- Metal phthalocyanine polymers
[NASA-CASE-ARC-11405-1] c 27 N83-12239
- Phthalocyanine polymers
[NASA-CASE-ARC-11413-1] c 27 N83-14275

PHYSICAL EXERCISE

- Restraint system for ergometer
[NASA-CASE-MFS-21046-1] c 14 N73-27377
- Tilting table for ergometer and for other biomedical devices
[NASA-CASE-MFS-21010-1] c 05 N73-30078
- Manual actuator --- for spacecraft exercising machines
[NASA-CASE-MFS-21481-1] c 37 N74-18127
- Therapeutic hand exerciser
[NASA-CASE-LAR-11667-1] c 52 N76-19785

PHYSICAL PROPERTIES

- Polyurethanes of fluorine containing polycarbonates
[NASA-CASE-MFS-10512] c 06 N73-30099
- System for monitoring physical characteristics of fluids
[NASA-CASE-NPO-15400-1] c 34 N83-31993

PHYSIOLOGICAL EFFECTS

- Restraint torso for a pressurized suit
[NASA-CASE-MSC-12397-1] c 05 N72-25119

PHYSIOLOGICAL TESTS

- Vibrophonocardiograph Patent
[NASA-CASE-XFR-07172] c 05 N71-27234
- Medical subject monitoring systems --- multichannel monitoring systems
[NASA-CASE-MSC-14180-1] c 52 N76-14757

PHYSIOLOGY

- Phonocardiograph transducer Patent
[NASA-CASE-XMS-05365] c 14 N71-22993
- Method of detecting and counting bacteria
[NASA-CASE-GSC-11917-2] c 51 N76-29891

PIERCING

- Pressurized cell micrometeoroid detector Patent
[NASA-CASE-XLA-00936] c 14 N71-14996

PIEZOELECTRIC CRYSTALS

- Miniature stress transducer Patent
[NASA-CASE-XNP-02983] c 14 N71-21091
- Ultra-stable oscillator with complementary transistors
[NASA-CASE-GSC-11513-1] c 33 N74-20862
- CDS solid state phase insensitive ultrasonic transducer --- annealing daddium sulfide crystals
[NASA-CASE-LAR-12304-1] c 35 N80-20559

PIEZOELECTRIC TRANSDUCERS

- Force transducer Patent
[NASA-CASE-XAC-01101] c 14 N70-41957
- Microbalance including crystal oscillators for measuring contaminants in a gas system Patent
[NASA-CASE-NPO-10144] c 14 N71-17701
- Phonocardiograph transducer Patent
[NASA-CASE-XMS-05365] c 14 N71-22993
- Semiconductor transducer device
[NASA-CASE-ERC-10087-2] c 14 N72-31446
- Length mode piezoelectric ultrasonic transducer for inspection of solid objects
[NASA-CASE-MSC-19672-1] c 38 N79-14398
- Piezoelectric deicing device
[NASA-CASE-LEW-13773-1] c 05 N83-29197

PIEZOELECTRICITY

- Missile stage separation indicator and stage initiator Patent
[NASA-CASE-XLA-00791] c 03 N70-39930
- Piezoelectric pump Patent
[NASA-CASE-XNP-05429] c 26 N71-21824
- Pressure sensitive transducers Patent
[NASA-CASE-ERC-10087] c 14 N71-27334
- Piezoelectric composite materials
[NASA-CASE-LEW-12582-1] c 76 N83-34796

PIEZORESISTIVE TRANSDUCERS

- Miniature stress transducer Patent
[NASA-CASE-XNP-02983] c 14 N71-21091
- Transverse piezoresistance and pinch effect electromechanical transducers Patent
[NASA-CASE-ERC-10088] c 26 N71-25490

PIGMENTS

- Stabilized zinc oxide coating compositions Patent
[NASA-CASE-XMF-07770-2] c 18 N71-26772

PILOT TRAINING

- Controlled visibility device for an aircraft Patent
[NASA-CASE-XFR-04147] c 11 N71-10748
- Kinesthetic control simulator --- for pilot training
[NASA-CASE-LAR-10276-1] c 09 N75-15662

PILOTS (PERSONNEL)

- System for indicating direction of intruder aircraft
[NASA-CASE-ERC-10226-1] c 14 N73-16483

PINCH EFFECT

- Toggle mechanism for pinching metal tubes
[NASA-CASE-GSC-12274-1] c 37 N79-28550

PINS

- Fatigue-resistant shear pin
[NASA-CASE-XLA-09122] c 15 N69-27505
- Turbo-machine blade vibration damper Patent
[NASA-CASE-XLE-00155] c 28 N71-29154
- Safety-type locking pin
[NASA-CASE-MFS-18495] c 15 N72-11385

PINTLES

- Metal valve pintle with encapsulated elastomeric body Patent
[NASA-CASE-MSC-12116-1] c 15 N71-17648

PIPE FLOW

- Flat-plate heat pipe
[NASA-CASE-GSC-11998-1] c 34 N77-32413

PIPELINES

- Spherical shield Patent
[NASA-CASE-XNP-01855] c 15 N71-28937

PIPELINING (COMPUTERS)

- A pipelined digital SAR azimuth correlator using hybrid FFT/transversal-filter
[NASA-CASE-NPO-15519-1] c 32 N82-12298

PIPES (TUBES)

- Device for determining the accuracy of the flare on a flared tube
[NASA-CASE-XKS-03495] c 14 N69-39785
- Piping arrangement through a double chamber structure
[NASA-CASE-XNP-08882] c 15 N69-39935

- Foldable conduit Patent
[NASA-CASE-XLE-00620] c 32 N70-41579
- Thermobulb mount Patent
[NASA-CASE-NPO-10158] c 33 N71-16356
- Method and apparatus for precision sizing and joining of large diameter tubes Patent
[NASA-CASE-XMF-05114] c 15 N71-17650
- Sealed separable connection Patent
[NASA-CASE-NPO-10064] c 15 N71-17693
- Electrical switching device Patent
[NASA-CASE-NPO-10037] c 09 N71-19610
- Tube dimpling tool Patent
[NASA-CASE-XMS-06876] c 15 N71-21536
- Plasma device feed system Patent
[NASA-CASE-XLE-02902] c 25 N71-21694
- Spin forming tubular elbows Patent
[NASA-CASE-XMF-01083] c 15 N71-22723
- Portable milling tool Patent
[NASA-CASE-XMF-03511] c 15 N71-22799
- Internal flare angle gauge Patent
[NASA-CASE-XMF-04415] c 14 N71-24693
- Method and apparatus for precision sizing and joining of large diameter tubes Patent
[NASA-CASE-XMF-05114-2] c 15 N71-24865
- Weld preparation machine Patent
[NASA-CASE-XKS-07953] c 15 N71-26134
- Method and apparatus for precision sizing and joining of large diameter tubes Patent
[NASA-CASE-XMF-05114-2] c 15 N71-26148
- Collapsible antenna boom and transmission line Patent
[NASA-CASE-MFS-20068] c 07 N71-27191
- Tube fabricating process
[NASA-CASE-LAR-10203-1] c 15 N72-16330
- Torsional disconnect unit
[NASA-CASE-NPO-10704] c 15 N72-20445
- Open type urine receptacle
[NASA-CASE-MSC-12324-1] c 05 N72-22093
- Method for measuring cutaneous sensory perception
[NASA-CASE-MSC-13609-1] c 05 N72-25122
- Low mass truss structure
[NASA-CASE-LAR-10546-1] c 11 N72-25287
- Honeycomb panels formed of minimal surface periodic tubule layers
[NASA-CASE-ERC-10364] c 18 N72-25540
- Honeycomb core structures of minimal surface tubule sections
[NASA-CASE-ERC-10363] c 18 N72-25541
- Method for distillation of liquids
[NASA-CASE-XNP-08124-2] c 06 N73-13129
- Cable restraint
[NASA-CASE-LAR-10129-1] c 15 N73-25512
- Method of fabricating a twisted composite superconductor
[NASA-CASE-LEW-11015] c 26 N73-32571
- Open tube guideway for high speed air cushioned vehicles
[NASA-CASE-LAR-10256-1] c 85 N74-34672
- Method for fabricating a mass spectrometer inlet leak
[NASA-CASE-GSC-12077-1] c 35 N77-24455
- Tubing and cable cutting tool
[NASA-CASE-LAR-12786-1] c 37 N82-20545
- Precision heat forming of tetrafluoroethylene tubing
[NASA-CASE-MSC-18430-1] c 37 N82-24491
- Open ended tubing cutters
[NASA-CASE-MSC-18538-1] c 37 N82-26672

PISTON ENGINES

- Stirling cycle engine and refrigeration systems
[NASA-CASE-NPO-13613-1] c 37 N76-29590
- Hot gas engine with dual crankshafts
[NASA-CASE-NPO-14221-1] c 37 N81-25370
- Solar engine
[NASA-CASE-LAR-12148-1] c 44 N82-24640
- Stirling cycle cryogenic cooler
[US-PATENT-4,389,849] c 44 N83-28574

PISTONS

- Automatic pump Patent
[NASA-CASE-XNP-04731] c 15 N71-24042
- Firefly pump-metering system
[NASA-CASE-GSC-10218-1] c 15 N72-21465
- Collapsible pistons
[NASA-CASE-MSC-13789-1] c 11 N73-32152
- Airflow control system for supersonic inlets
[NASA-CASE-LEW-11188-1] c 02 N74-20646
- Centrifugal-reciprocating compressor
[NASA-CASE-NPO-14597-1] c 37 N79-23431
- Free-piston regenerative hot gas hydraulic engine
[NASA-CASE-LEW-12274-1] c 37 N80-31790
- Power control for hot gas engines
[NASA-CASE-NPO-14220-1] c 37 N81-14318
- Multiple plate hydrostatic viscous damper
[NASA-CASE-LEW-12445-1] c 37 N81-22360
- Stirling cycle cryogenic cooler --- magnetically suspended pistons
[NASA-CASE-GSC-12697-1] c 31 N82-11312

- Gas-to-hydraulic power converter.
[NASA-CASE-MSC-18794-1] c 44 N83-14693
- Magnetically actuated compressor
[NASA-CASE-GSC-12799-1] c 37 N83-20153
- Centrifugal-reciprocating compressor
[NASA-CASE-NPO-14597-2] c 37 N83-29708

PITCH (INCLINATION)

- Reverse pitch fan with divided splitter
[NASA-CASE-LEW-12760-1] c 07 N77-17059
- Velocity vector control system augmented with direct lift control
[NASA-CASE-LAR-12268-1] c 08 N81-24106
- Pitch attitude stabilization system utilizing engine pressure ratio feedback signals
[NASA-CASE-LAR-12562-1] c 08 N81-26152

PIVOTS

- Tension measurement device Patent
[NASA-CASE-XMS-04545] c 15 N71-22878
- Thumb actuated two axis controller
[NASA-CASE-ARC-11372-1] c 08 N83-12098
- Self-locking telescoping manipulator arm
[NASA-CASE-MFS-25906-1] c 54 N84-11761
- Unidirectional flexural pivot
[NASA-CASE-GSC-12622-1] c 37 N84-12492

PLANAR STRUCTURES

- Window defect planar mapping technique
[NASA-CASE-MSC-19442-1] c 74 N77-10899
- Method and apparatus for preparing multiconductor cable with flat conductors
[NASA-CASE-MFS-10946-1] c 31 N79-21226
- High voltage planar multijunction solar cell
[NASA-CASE-LEW-13400-1] c 44 N82-31764

PLANE WAVES

- Multiple reflection conical microwave antenna
[NASA-CASE-NPO-11661] c 07 N73-14130

PLANETARY ATMOSPHERES

- Method of planetary atmospheric investigation using a split-trajectory dual flyby mode Patent
[NASA-CASE-XAC-08494] c 30 N71-15990
- Flow field simulation Patent
[NASA-CASE-LAR-11138] c 12 N71-20436
- Ablation sensor Patent
[NASA-CASE-XLA-01791] c 14 N71-22991

PLANETARY GRAVITATION

- Impact simulator Patent
[NASA-CASE-XLA-00493] c 11 N70-34786
- Means for visually indicating flight paths of vehicles between the Earth, Venus, and Mercury Patent
[NASA-CASE-XNP-00708] c 14 N70-35394

PLANETARY LANDING

- Parachute glider Patent
[NASA-CASE-XLA-00898] c 02 N70-36804
- Omnidirectional multiple impact landing system Patent
[NASA-CASE-XLA-09881] c 31 N71-16085

PLANETARY ORBITS

- Flexible foam erectable space structures Patent
[NASA-CASE-XLA-00886] c 31 N70-34135
- Erectable modular space station Patent
[NASA-CASE-XLA-00678] c 31 N70-34296

PLANETARY RADIATION

- Attitude sensor for space vehicles Patent
[NASA-CASE-XLA-00793] c 21 N71-22880

PLANETARY SURFACES

- Method and apparatus for mapping planets
[NASA-CASE-NPO-11001] c 07 N72-21118

PLANTS (BOTANY)

- Rotary plant growth accelerating apparatus --- weightlessness
[NASA-CASE-ARC-10722-1] c 51 N75-25503
- Molten salt pyrolysis of latex --- synthetic hydrocarbon fuel production using the Guayule shrub
[NASA-CASE-NPO-14315-1] c 27 N81-17261
- Enhancement of in vitro guayule propagation
[NASA-CASE-NPO-15213-1] c 51 N83-17045

PLASMA ACCELERATION

- Apparatus for increasing ion engine beam density Patent
[NASA-CASE-XLE-00519] c 28 N70-41576
- Coaxial high density, hypervelocity plasma generator and accelerator with ionizable metal disc
[NASA-CASE-MFS-20589] c 25 N72-32688

PLASMA ACCELERATORS

- Plasma accelerator Patent
[NASA-CASE-XLA-00675] c 25 N70-33267
- Continuously operating induction plasma accelerator Patent
[NASA-CASE-XLA-01354] c 25 N70-36946
- Crossed-field MHD plasma generator/ accelerator Patent
[NASA-CASE-XLA-03374] c 25 N71-15582
- Self-repeating plasma generator having communicating annular and linear arc discharge passages Patent
[NASA-CASE-XLA-03103] c 25 N71-21693
- Magnetically controlled plasma accelerator Patent
[NASA-CASE-XLA-00327] c 25 N71-29184

Two stage light gas-plasma projectile accelerator
[NASA-CASE-MFS-22287-1] c 75 N76-14931

PLASMA CONTROL

Superconductive magnetic-field-trapping device
[NASA-CASE-XNP-01185] c 26 N73-28710
Self-energized plasma compressor --- for compressing
plasma discharged from coaxial plasma generator
[NASA-CASE-MFS-22145-1] c 75 N75-13625

PLASMA CYLINDERS

Plasma fluidic hybrid display Patent
[NASA-CASE-ERC-10100] c 09 N71-33519

PLASMA DENSITY

Focussing system for an ion source having apertured
electrodes Patent
[NASA-CASE-XNP-03332] c 09 N71-10618
Measurement of plasma temperature and density using
radiation absorption
[NASA-CASE-ARC-10598-1] c 75 N74-30156

PLASMA DIAGNOSTICS

Probes having ring and primary sensor at same potential
to prevent collection of stray wall currents in ionized
gases
[NASA-CASE-XLE-00690] c 25 N69-39884
Apparatus for measuring conductivity and velocity of
plasma utilizing a plurality of sensing coils positioned in
the plasma Patent
[NASA-CASE-XAC-05695] c 25 N71-16073
Measurement of plasma temperature and density using
radiation absorption
[NASA-CASE-ARC-10598-1] c 75 N74-30156

PLASMA DYNAMICS

Apparatus for measuring conductivity and velocity of
plasma utilizing a plurality of sensing coils positioned in
the plasma Patent
[NASA-CASE-XAC-05695] c 25 N71-16073
Self-energized plasma compressor --- for compressing
plasma discharged from coaxial plasma generator
[NASA-CASE-MFS-22145-1] c 75 N75-13625

PLASMA ENGINES

Plasma device feed system Patent
[NASA-CASE-XLE-02902] c 25 N71-21694

PLASMA GENERATORS

Method and apparatus for producing a plasma Patent
[NASA-CASE-XLA-00147] c 25 N70-34661
Crossed-field MHD plasma generator/ accelerator
Patent
[NASA-CASE-XLA-03374] c 25 N71-15562
Coaxial high density, hypervelocity plasma generator and
accelerator with ionizable metal disc
[NASA-CASE-MFS-20589] c 25 N72-32688
Self-energized plasma compressor --- for compressing
plasma discharged from coaxial plasma generator
[NASA-CASE-MFS-22145-1] c 75 N75-13625
Self-energized plasma compressor
[NASA-CASE-MFS-22145-2] c 75 N76-17951
Continuous plasma laser --- method and apparatus for
producing intense, coherent, monochromatic light from low
temperature plasma
[NASA-CASE-XNP-04167-3] c 36 N77-19416
Ring-cusp ion thruster with shell anode
[NASA-CASE-LEW-13881-1] c 72 N83-21903

PLASMA GUNS

Method of making a diffusion bonded refractory coating
Patent
[NASA-CASE-XLE-01604-2] c 15 N71-15610

PLASMA HEATING

Hollow cathode apparatus
[NASA-CASE-NPO-15560-1] c 75 N84-16993

PLASMA JETS

Method of preparing water purification membranes ---
polymerization of allyl amine as thin films in plasma
discharge
[NASA-CASE-ARC-10643-1] c 25 N75-12087
Combination automatic-starting electrical plasma torch
and gas shutoff valve --- for satellite attitude control
[NASA-CASE-XLE-10717] c 37 N75-29426
Plasma cleaning device --- designed for high vacuum
environments
[NASA-CASE-MFS-22906-1] c 75 N78-27913

PLASMA LAYERS

Electrostatic plasma modulator for space vehicle
re-entry communication Patent
[NASA-CASE-XLA-01400] c 07 N70-41331
Means for communicating through a layer of ionized
gases Patent
[NASA-CASE-XLA-01127] c 07 N70-41372
Reentry communication by material addition Patent
[NASA-CASE-XLA-01552] c 07 N71-11284

PLASMA POTENTIALS

Method and apparatus for neutralizing potentials induced
on spacecraft surfaces
[NASA-CASE-GSC-11963-1] c 33 N77-10429

PLASMA PROBES

Probes having ring and primary sensor at same potential
to prevent collection of stray wall currents in ionized
gases
[NASA-CASE-XLE-00690] c 25 N69-39884

Small plasma probe Patent
[NASA-CASE-XLE-02578] c 25 N71-20747

PLASMA PROPULSION

Method of making dish ion thruster grids
[NASA-CASE-LEW-11694-1] c 20 N75-18310

PLASMA RADIATION

Means for measuring the electron density gradients of
the plasma sheath formed around a space vehicle
Patent
[NASA-CASE-XLA-06232] c 25 N71-20563
Continuous plasma light source
[NASA-CASE-XNP-04167-2] c 25 N72-24753

PLASMA SHEATHS

Apparatus for measuring electric field strength on the
surface of a model vehicle Patent
[NASA-CASE-XLE-02038] c 09 N71-16086
Means for measuring the electron density gradients of
the plasma sheath formed around a space vehicle
Patent
[NASA-CASE-XLA-06232] c 25 N71-20563

PLASMA SPRAYING

Method of coating carbonaceous base to prevent
oxidation destruction and coated base Patent
[NASA-CASE-XLA-00302] c 15 N71-16077
Fully plasma-sprayed compliant backed ceramic turbine
seal
[NASA-CASE-LEW-13268-2] c 37 N82-26674
Fully plasma-sprayed compliant backed ceramic turbine
seal
[NASA-CASE-LEW-13268-1] c 27 N82-29453
Fully plasma-sprayed compliant backed ceramic turbine
seal
[NASA-CASE-LEW-13268-3] c 37 N83-28450

PLASMA TEMPERATURE

Measurement of plasma temperature and density using
radiation absorption
[NASA-CASE-ARC-10598-1] c 75 N74-30156

PLASMA-ELECTROMAGNETIC INTERACTION

Plasma igniter for internal combustion engine
[NASA-CASE-NPO-13828-1] c 37 N79-11405

PLASMAS (PHYSICS)

Apparatus for measuring conductivity and velocity of
plasma utilizing a plurality of sensing coils positioned in
the plasma Patent
[NASA-CASE-XAC-05695] c 25 N71-16073

PLASMONS

Inelastic tunnel diodes
[NASA-CASE-LEW-13833-1] c 33 N83-25983

PLASTIC COATINGS

Coating process
[NASA-CASE-XNP-06508] c 18 N69-39895
Apparatus and method for skin packaging articles
[NASA-CASE-MFS-20855] c 15 N73-27405
Silicon nitride coated, plastic covered solar cell
[NASA-CASE-LEW-11496-1] c 44 N77-14580
Oxygen post-treatment of plastic surface coated with
plasma polymerized silicon-containing monomers
[NASA-CASE-ARC-10915-2] c 27 N79-18052
Advanced inorganic separators for alkaline batteries
[NASA-CASE-LEW-13171-1] c 44 N82-29708

PLASTIC DEFORMATION

Light intensity strain analysis
[NASA-CASE-LAR-10765-1] c 32 N73-20740
Mechanical bonding of metal method
[NASA-CASE-LEW-12941-1] c 26 N83-10170

PLASTIC TAPES

Thermocouple tape
[NASA-CASE-LEW-11072-1] c 14 N73-24472

PLASTICIZERS

Inorganic-organic separators for alkaline batteries
[NASA-CASE-LEW-12649-1] c 44 N78-25530
Tackifier for addition polyimides containing
monothylphthalate
[NASA-CASE-LAR-12642-1] c 27 N81-29229
Method of bonding plasticized elastomer to metal and
articles produced thereby
[NASA-CASE-MFS-25181-1] c 27 N82-24340
Advanced inorganic separators for alkaline batteries
[NASA-CASE-LEW-13171-1] c 44 N82-29708

PLASTICS

Method for forming plastic materials Patent
[NASA-CASE-XMS-05516] c 15 N71-17803
Method of making inflatable honeycomb Patent
[NASA-CASE-XLA-03492] c 15 N71-22713
Sealing member and combination thereof and method
of producing said sealing member Patent
[NASA-CASE-XMS-01625] c 15 N71-23022
Dielectric molding apparatus Patent
[NASA-CASE-LAR-10121-1] c 15 N71-26721
Radar calibration sphere
[NASA-CASE-XLA-11154] c 07 N72-21117

Molding apparatus --- for thermosetting plastic
compositions
[NASA-CASE-LAR-10489-2] c 31 N74-32920
Ultraviolet and thermally stable polymer compositions
[NASA-CASE-ARC-10592-2] c 27 N76-32315

PLATENS

Compression test apparatus
[NASA-CASE-MSC-18723-1] c 35 N83-21312

PLATES (STRUCTURAL MEMBERS)

Foil seal
[NASA-CASE-XLE-05130] c 15 N69-21362
Fifth wheel
[NASA-CASE-FRC-10081-1] c 37 N77-14477
Microwave dichroic plate
[NASA-CASE-GSC-12171-1] c 33 N79-28416
Floating nut retention system
[NASA-CASE-MSC-16938-1] c 37 N80-23653
Optimized bolted joint
[NASA-CASE-LAR-13250-1] c 37 N84-20859

PLATING

Selective plating of etched circuits without removing
previous plating Patent
[NASA-CASE-XGS-03120] c 15 N71-24047
Peen plating
[NASA-CASE-GSC-11163-1] c 15 N73-32360
Scanning nozzle plating system --- for etching or plating
metals on substrates without masking
[NASA-CASE-NPO-11758-1] c 31 N74-23065
Method for depositing an oxide coating
[NASA-CASE-LEW-13131-1] c 44 N83-10494

PLATINUM

Electrolytic cell structure
[NASA-CASE-LAR-11042-1] c 33 N75-27252
Platinum resistance thermometer circuit
[NASA-CASE-MSC-12327-1] c 35 N77-27368

PLATINUM ALLOYS

Joining lead wires to thin platinum alloy films
[NASA-CASE-LEW-13934-1] c 35 N83-35338

PLAYBACKS

Method of and means for testing a tape record/playback
system
[NASA-CASE-MFS-22671-2] c 35 N77-17426
Thermomagnetic recording and magnetic-optic playback
system
[NASA-CASE-NPO-10872-1] c 35 N79-16246

PLENUM CHAMBERS

Air cushion lift pad Patent
[NASA-CASE-MFS-14685] c 31 N71-15689
Gas filter mounting structure
[NASA-CASE-MSC-12297] c 14 N72-23457
Micro-fluid exchange coupling apparatus
[NASA-CASE-ARC-11114-1] c 51 N81-14605
Sonic levitation apparatus
[NASA-CASE-MFS-25828-1] c 71 N83-26646

PLETHYSMOGRAPHY

Readout electrode assembly for measuring biological
impedance
[NASA-CASE-ARC-10816-1] c 35 N76-24525
Apparatus for determining changes in limb volume
[NASA-CASE-MSC-18759-1] c 52 N83-27578

PLOTTERS

Automated equipotential plotter
[NASA-CASE-NPO-11134] c 09 N72-21246
Apparatus and method for determining the position of
a radiant energy source
[NASA-CASE-GSC-12147-1] c 32 N81-27341

PLOTTING

Instrument for measuring potentials on two dimensional
electric field plots Patent
[NASA-CASE-XLA-08493] c 10 N71-19421

PLUG NOZZLES

Cascade plug nozzle --- for jet noise reduction
[NASA-CASE-LAR-11674-1] c 07 N76-18117
Apparatus and method for jet noise suppression
[NASA-CASE-LAR-11903-2] c 71 N84-14873

PLUGS

Rocket chamber leak test fixture
[NASA-CASE-XFR-09479] c 14 N69-27503
Fatigue-resistant shear pin
[NASA-CASE-XLA-09122] c 15 N69-27505
Gas regulator Patent
[NASA-CASE-NPO-10298] c 12 N71-17661
Heated porous plug microthruster
[NASA-CASE-GSC-10640-1] c 28 N72-18766
High temperature penetrator assembly with bayonet plug
and ramp-activated lock
[NASA-CASE-MSC-18526-1] c 37 N82-24494

PNEUMATIC CONTROL

Pneumatic system for controlling and actuating
pneumatic cyclic devices
[NASA-CASE-XMS-04843] c 03 N69-21469
Pneumatic mirror support system
[NASA-CASE-XLA-03271] c 11 N69-24321
Valve actuator Patent
[NASA-CASE-XHQ-01208] c 15 N70-35409

- Quick release hook tape Patent
[NASA-CASE-XMS-10660-1] c 15 N71-25975
- Foot pedal operated fluid type exercising device
[NASA-CASE-MSC-11561-1] c 05 N73-32014
- Pneumatic load compensating or controlling system
[NASA-CASE-ARC-10907-1] c 37 N75-32465
- PNEUMATIC EQUIPMENT**
- High pressure air valve Patent
[NASA-CASE-MSC-11010] c 15 N71-19485
- Inflatable support structure Patent
[NASA-CASE-XLA-01731] c 32 N71-21045
- Apparatus for purging systems handling toxic, corrosive, noxious and other fluids Patent
[NASA-CASE-XMS-01905] c 12 N71-21089
- Zero gravity apparatus Patent
[NASA-CASE-XMF-06515] c 14 N71-23227
- Pneumatic amplifier Patent
[NASA-CASE-MSC-12121-1] c 15 N71-27147
- Life raft stabilizer
[NASA-CASE-MSC-12393-1] c 02 N73-26006
- Airlock
[NASA-CASE-MFS-20922-1] c 18 N74-22136
- Pneumatic load compensating or controlling system
[NASA-CASE-ARC-10907-1] c 37 N75-32465
- Improved tire/wheel concept --- pneumatic aircraft tire
[NASA-CASE-LAR-11695-2] c 37 N80-18402
- Gas-to-hydraulic power converter
[NASA-CASE-MSC-18794-1] c 44 N83-14693
- System and method for moving a probe to follow movements of tissue
[NASA-CASE-NPO-15197-1] c 52 N83-25346
- Apparatus for improving the fuel efficiency of a gas turbine engine
[NASA-CASE-LEW-13142-1] c 07 N83-36029
- Inflatable device for installing strain gage bridges
[NASA-CASE-FRC-11068-1] c 35 N84-12443
- POINT SOURCES**
- Electronic background suppression method and apparatus for a field scanning sensor
[NASA-CASE-XGS-05211] c 07 N69-39980
- X-ray reflection collimator adapted to focus X-radiation directly on a detector Patent
[NASA-CASE-XHQ-04106] c 14 N70-40240
- Apparatus and method for determining the position of a radiant energy source
[NASA-CASE-GSC-12147-1] c 32 N81-27341
- POINTING CONTROL SYSTEMS**
- Rotable accurate reflector system for telescopes Patent
[NASA-CASE-NPO-10468] c 23 N71-33229
- All sky pointing attitude control system
[NASA-CASE-ARC-10716-1] c 35 N77-20399
- Magnetic suspension and pointing system
[NASA-CASE-LAR-11889-2] c 37 N78-27424
- Magnetic suspension and pointing system --- on a carrier vehicle
[NASA-CASE-LAR-11889-1] c 35 N79-26372
- Solar tracking system
[NASA-CASE-MFS-23999-1] c 44 N81-24520
- POLAR ORBITS**
- Cartwheel satellite synchronization system Patent
[NASA-CASE-XGS-05579] c 31 N71-15676
- POLARIMETERS**
- Polarimeter for transient measurement Patent
[NASA-CASE-XNP-08883] c 23 N71-16101
- Interferometer-polarimeter
[NASA-CASE-NPO-11239] c 14 N73-12446
- POLARITY**
- Positive dc to negative dc converter Patent
[NASA-CASE-XMF-08217] c 03 N71-23239
- Peak polarity selector Patent
[NASA-CASE-FRC-10010] c 10 N71-24862
- Precision rectifier with FET switching means Patent
[NASA-CASE-ARC-10101-1] c 09 N71-33109
- POLARIZATION (WAVES)**
- System for interference signal nulling by polarization adjustment
[NASA-CASE-NPO-13140-1] c 32 N75-24982
- Multifrequency broadband polarized horn antenna
[NASA-CASE-NPO-14588-1] c 32 N81-25278
- Faraday rotation measurement method and apparatus
[NASA-CASE-NPO-14839-1] c 35 N82-15381
- POLARIZED ELECTROMAGNETIC RADIATION**
- Antenna beam-shaping apparatus Patent
[NASA-CASE-XNP-00611] c 09 N70-35219
- Parabolic reflector horn feed with spillover correction Patent
[NASA-CASE-XNP-00540] c 09 N70-35382
- Antenna feed system for receiving circular polarization and transmitting linear polarization
[NASA-CASE-NPO-14362-1] c 32 N80-16261
- Coaxial phased array antenna
[NASA-CASE-MSC-16800-1] c 32 N81-14187
- POLARIZED LIGHT**
- Polarization compensator for optical communications
[NASA-CASE-GSC-11782-1] c 74 N76-30053
- Visible and infrared polarization ratio spectroradiometer
[NASA-CASE-LAR-12285-1] c 35 N80-28687
- Wide dynamic range video camera
[NASA-CASE-MFS-25750-1] c 33 N83-35229
- POLARIZED RADIATION**
- Microwave limb sounder --- measuring trace gases in the upper atmosphere
[NASA-CASE-NPO-14544-1] c 46 N82-12685
- POLARIZERS**
- Partial polarizer filter
[NASA-CASE-GSC-12225-1] c 74 N79-14891
- POLISHING**
- Conforming polisher for aspheric surface of revolution Patent
[NASA-CASE-XGS-02884] c 15 N71-22705
- Method of forming a sharp edge on an optical device
[NASA-CASE-GSC-12348-1] c 74 N80-24149
- POLLUTION CONTROL**
- System for minimizing internal combustion engine pollution emission
[NASA-CASE-NPO-13402-1] c 37 N76-18457
- Combustion engine --- for air pollution control
[NASA-CASE-NPO-13671-1] c 37 N77-31497
- Supercritical fuel injection system
[NASA-CASE-LEW-12990-1] c 07 N81-29129
- Apparatus and method for destructive removal of particles contained in flowing fluid
[NASA-CASE-NPO-15426-1] c 35 N84-17555
- POLLUTION MONITORING**
- Fluorescence detector for monitoring atmospheric pollutants
[NASA-CASE-NPO-13231-1] c 45 N75-27585
- Stack plume visualization system
[NASA-CASE-LAR-11675-1] c 45 N76-17656
- Indicator providing continuous indication of the presence of a specific pollutant in air
[NASA-CASE-NPO-13474-1] c 45 N76-21742
- Method for detecting pollutants --- through chemical reactions and heat treatment
[NASA-CASE-LAR-11405-1] c 45 N76-31714
- Automated syringe sampler --- remote sampling of air and water
[NASA-CASE-LAR-12308-1] c 35 N81-29407
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Pressure garment joint Patent
[NASA-CASE-XMS-09636] c 05 N71-12344
Omnidirectional joint Patent
[NASA-CASE-XMS-09635] c 05 N71-24623
Foreshortened convolute section for a pressurized suit Patent
[NASA-CASE-XMS-09637-1] c 05 N71-24730
Method of forming a root cord restrained convolute section
[NASA-CASE-MSC-12398] c 05 N72-20098
Restraint torso for a pressurized suit
[NASA-CASE-MSC-12397-1] c 05 N72-25119
Flexible joint for pressurizable garment
[NASA-CASE-MSC-11072] c 54 N74-32546
Walking boot assembly
[NASA-CASE-ARC-11101-1] c 54 N78-17675
Pressure suit joint analyzer
[NASA-CASE-ARC-11314-1] c 54 N82-26987
Method and apparatus for simulating gravitational forces on a living organism
[NASA-CASE-MSC-20202-1] c 54 N84-16803

PRESSURE SWITCHES
Reinforcing means for diaphragms Patent
[NASA-CASE-XNP-01962] c 32 N70-41370
Calibrating pressure switch
[NASA-CASE-XMF-04494-1] c 33 N79-33392

PRESSURE VESSELS
Liquid rocket system Patent
[NASA-CASE-XNP-00610] c 28 N70-36910
Thin-walled pressure vessel Patent
[NASA-CASE-XLE-04877] c 15 N71-10577
Gas regulator Patent
[NASA-CASE-NPO-10298] c 12 N71-17661
Controlled glass bead peening Patent
[NASA-CASE-XLA-07390] c 15 N71-18616
Heater-mixer for stored fluids
[NASA-CASE-ARC-10442-1] c 35 N74-15093
Method and apparatus for nondestructive testing of pressure vessels
[NASA-CASE-NPO-12142-1] c 38 N76-28563
Gas compression apparatus
[NASA-CASE-MSC-14757-1] c 35 N78-10428
Pressure control valve — inflating flexible bladders
[NASA-CASE-ARC-11251-1] c 37 N81-17433
Method and apparatus for growth of crystals by pressure reduction of supercritical or subcritical solution
[NASA-CASE-NPO-15772-1] c 76 N82-23031
Space Shuttle with improved external propellant tank
[NASA-CASE-MFS-25853] c 16 N83-13149
Securable bearing stress-strain indicator — for monitoring torque on bolts incorporated in pressure vessels
[NASA-CASE-LAR-12774-1] c 35 N83-29654

PRESSURE WELDING
Diffusion welding — heat treatment of nickel alloys following single step vacuum welding process
[NASA-CASE-LEW-11388-2] c 37 N74-21055

PRESSURIZING
Restraining mechanism
[NASA-CASE-MSC-13054] c 54 N78-17877

PRESTRESSING
Prestressed refractory structure Patent
[NASA-CASE-XNP-02888] c 18 N71-21068

- Method of manufacture of bonded fiber flywheel — fiberglass-epoxy
[NASA-CASE-MFS-23874-1] c 24 N81-29163
Apparatus for accurately preloading auger attachment means for frangible protective material
[NASA-CASE-MSC-18791-1] c 37 N83-36482

PRETREATMENT

- Pretreatment method for anti-wettable materials
[NASA-CASE-XMS-03537] c 15 N69-21471
Apparatus for accurately preloading auger attachment means for frangible protective material
[NASA-CASE-MSC-18791-1] c 37 N83-36482

PRINTED CIRCUITS

- Electrical feed-through connection for printed circuit boards and printed cable
[NASA-CASE-XMF-01483] c 14 N69-27431
Printed cable connector Patent
[NASA-CASE-XMF-00369] c 09 N70-36494
Printed circuit board with bellows rivet connection Patent
[NASA-CASE-XNP-05082] c 15 N70-41960
Electrical spot terminal assembly Patent
[NASA-CASE-NPO-10034] c 15 N71-17685
Method of coating circuit paths on printed circuit boards with solder Patent
[NASA-CASE-XMF-01599] c 09 N71-20705
Device for handling printed circuit cards Patent
[NASA-CASE-MFS-20453] c 15 N71-29133
Polyimide resin-fiberglass cloth laminates for printed circuit boards
[NASA-CASE-MFS-20408] c 18 N73-12604
Circuit board package with wedge shaped covers
[NASA-CASE-MFS-21919-1] c 10 N73-25243
Device for configuring multiple leads — method for connecting electric leads to printed circuit board
[NASA-CASE-MFS-22133-1] c 33 N74-26977
Connector — for connecting circuits on different layers of multilayer printed circuit boards
[NASA-CASE-LAR-11709-1] c 37 N76-27567
Controlled caging and uncaging mechanism
[NASA-CASE-GSC-11063-1] c 37 N77-27400
Solar array strip and a method for forming the same
[NASA-CASE-NPO-13652-1] c 44 N79-17314
Screen printed interdigitated back contact solar cell
[NASA-CASE-LEW-13414-1] c 44 N83-20374

PRINTING

- Application of semiconductor diffusants to solar cells by screen printing
[NASA-CASE-LEW-12775-1] c 44 N79-11488

PRINTOUTS

- Device for handling printed circuit cards Patent
[NASA-CASE-MFS-20453] c 15 N71-29133

PRISMS

- Interferometric rotation sensor
[NASA-CASE-ARC-10278-1] c 14 N73-25463
Method and apparatus for splitting a beam of energy — optical communication
[NASA-CASE-GSC-12083-1] c 73 N78-32848
Multiprism collimator
[NASA-CASE-MFS-12608-1] c 74 N83-10900
Rhomboid prism pair for rotating the plane of parallel light beams
[NASA-CASE-ARC-11311-1] c 74 N83-13978
Laser Resonator
[NASA-CASE-GSC-12565-1] c 36 N84-14509

PROBABILITY THEORY

- System and method for character recognition
[NASA-CASE-NPO-11337-1] c 74 N81-18896

PROBES

- Method and apparatus for securing to a spacecraft Patent
[NASA-CASE-MFS-11133] c 31 N71-16222
Droplet monitoring probe
[NASA-CASE-NPO-10985] c 14 N73-20478
System and method for moving a probe to follow movements of tissue
[NASA-CASE-NPO-15197-1] c 52 N83-25346

PROCESS CONTROL (INDUSTRY)

- Photoelectric detection system — manufacturing automation
[NASA-CASE-MFS-23776-1] c 33 N82-28545

PRODUCT DEVELOPMENT

- Technique of duplicating fragile core
[NASA-CASE-XLA-07829] c 15 N72-16329
Tube fabricating process
[NASA-CASE-LAR-10203-1] c 15 N72-16330
Process for making diamonds
[NASA-CASE-MFS-20698-2] c 15 N73-19457
High power laser apparatus and system
[NASA-CASE-XLE-2529-2] c 38 N75-27364
Induced junction solar cell and method of fabrication
[NASA-CASE-NPO-13786-1] c 44 N80-29835
Process for preparation of large-particle-size monodisperse latexes
[NASA-CASE-MFS-25000-1] c 25 N81-19242

- Ion-exchange hollow fibers
[NASA-CASE-NPO-13309-1] c 25 N81-19244
Precision heat forming of tetrafluoroethylene tubing
[NASA-CASE-MSC-18430-1] c 37 N82-24491
Fiber optic crossbar switch for automatically patching optical signals
[NASA-CASE-KSC-11104-1] c 74 N83-29032
Phosphorus-containing imide resins
[NASA-CASE-ARC-11368-1] c 27 N83-31854

PRODUCTION ENGINEERING

- Indexed keyed connection Patent
[NASA-CASE-XMS-02532] c 15 N70-41808
Method and apparatus for making curved reflectors Patent
[NASA-CASE-XLE-08917] c 15 N71-15597
Method of making self lubricating fluoride-metal composite materials Patent
[NASA-CASE-XLE-08511-2] c 18 N71-16105
Method of making impurity-type semiconductor electrical contacts Patent
[NASA-CASE-XMF-01016] c 26 N71-17818
Method of making inflatable honeycomb Patent
[NASA-CASE-XLA-03492] c 15 N71-22713
Multilayer porous ionizer Patent
[NASA-CASE-NPO-04338] c 17 N71-23046
Ion engine casing construction and method of making same Patent
[NASA-CASE-XNP-06942] c 28 N71-23293
Flexible conductive disc electrode Patent
[NASA-CASE-FRC-10029] c 09 N71-24618
Star tracking reticles
[NASA-CASE-GSC-11188-1] c 14 N73-32320
Process for making sheets with parallel pores of uniform size
[NASA-CASE-GSC-10984-1] c 37 N75-26371
Solar cell collector and method for producing same
[NASA-CASE-LEW-12552-2] c 44 N79-11472
Multilevel metallization method for fabricating a metal oxide semiconductor device
[NASA-CASE-MFS-23541-1] c 76 N79-14906
Solar array strip and a method for forming the same
[NASA-CASE-NPO-13652-1] c 44 N79-17314
Method of fabricating a photovoltaic module of a substantially transparent construction
[NASA-CASE-NPO-14303-1] c 44 N80-18550
Apparatus for use in the production of ribbon-shaped crystals from a silicon melt
[NASA-CASE-NPO-14297-1] c 33 N81-19389
Method and apparatus for producing concentric hollow spheres — inertial confinement fusion targets
[NASA-CASE-NPO-14596-1] c 31 N81-33319
Apparatus for sequentially transporting containers
[NASA-CASE-MFS-23846-1] c 37 N82-32731
Solar cell having improved back surface reflector
[NASA-CASE-LEW-13620-1] c 44 N83-13579
Process for producing tris (N-methylamino) methylsilane
[NASA-CASE-MFS-25721-1] c 25 N83-25811
Method of increasing minority carrier lifetime in silicon web or the like
[NASA-CASE-NPO-15530-1] c 76 N83-35888

PROJECTILES

- Self-obliterating, gas operated launcher
[NASA-CASE-NPO-11013] c 11 N72-22247
Two stage light gas-plasma projectile accelerator
[NASA-CASE-MFS-22287-1] c 75 N76-14931

PROJECTION

- Projection system for display of parallax and perspective
[NASA-CASE-MFS-23194-1] c 35 N78-17357

PROJECTIVE GEOMETRY

- Projection system for display of parallax and perspective
[NASA-CASE-MFS-23194-1] c 35 N78-17357

PROJECTORS

- Optical projector system Patent
[NASA-CASE-XNP-03853] c 23 N71-21882
System and method for obtaining wide screen Schlieren photographs
[NASA-CASE-NPO-14174-1] c 74 N79-20856

PROPAGATION MODES

- Dual waveguide mode source having control means for adjusting the relative amplitude of two modes Patent
[NASA-CASE-XNP-03134] c 07 N71-10676

PROPELLANT ACTUATED INSTRUMENTS

- Pressure limiting propellant actuating system
[NASA-CASE-MSC-18179-1] c 20 N80-18097

PROPELLANT ADDITIVES

- Inhibited solid propellant composition containing beryllium hydride
[NASA-CASE-NPO-10866-1] c 28 N79-14228

PROPELLANT BINDERS

- Method of forming difunctional polyisobutylene
[NASA-CASE-NPO-10893] c 27 N73-22710
Recovery of aluminum from composite propellants
[NASA-CASE-NPO-14110-1] c 28 N81-15119

PROPELLANT CASTING

- Casting propellant in rocket engine
[NASA-CASE-LAR-11895-1] c 28 N77-10213
Solid propellant rocket motor and method of making same
[NASA-CASE-XLA-1349] c 20 N77-17143

PROPELLANT CHEMISTRY

- Nitramine propellants — gun propellant burning rate
[NASA-CASE-NPO-14103-1] c 28 N78-31255

PROPELLANT COMBUSTION

- Spherically-shaped rocket motor Patent
[NASA-CASE-XHQ-01897] c 28 N70-35381
Control of transverse instability in rocket combustors Patent
[NASA-CASE-XLE-04603] c 33 N71-21507

PROPELLANT DECOMPOSITION

- Decomposition unit Patent
[NASA-CASE-XMS-00583] c 28 N70-38504

PROPELLANT GRAINS

- Propellant grain for rocket motors Patent
[NASA-CASE-XGS-03556] c 27 N70-35534

PROPELLANT TANKS

- Liquid rocket system Patent
[NASA-CASE-XNP-00610] c 28 N70-36910
Slosh suppressing device and method Patent
[NASA-CASE-XMF-00658] c 12 N70-38997
Measuring device Patent
[NASA-CASE-XMS-01546] c 14 N70-40233
Zero gravity starting means for liquid propellant motors Patent
[NASA-CASE-XNP-01390] c 28 N70-41275
Tank construction for space vehicles Patent
[NASA-CASE-XMF-01899] c 31 N70-41948
Method and apparatus for detection and location of microleaks Patent
[NASA-CASE-XMF-02307] c 14 N71-10779
Method of making a filament-wound container Patent
[NASA-CASE-XLE-03803-2] c 15 N71-17651
Slosh alleviator Patent
[NASA-CASE-XLA-05749] c 15 N71-18569
Booster tank system Patent
[NASA-CASE-MSC-12390] c 27 N71-29155
Space vehicle system
[NASA-CASE-MSC-12561-1] c 18 N76-17185
Passive propellant system
[NASA-CASE-MFS-23642-2] c 20 N78-27176
Three stage rocket vehicle with parallel staging — space transportation system
[NASA-CASE-MFS-25878-1] c 18 N83-12138

PROPELLANT TRANSFER

- Fluid coupling Patent
[NASA-CASE-XLE-00397] c 15 N70-36492
Apparatus for transferring cryogenic liquids Patent
[NASA-CASE-XLE-00345] c 15 N70-38020
Method for continuous variation of propellant flow and thrust in propulsive devices Patent
[NASA-CASE-XLE-00177] c 28 N70-40367
Fluid dispensing apparatus and method Patent
[NASA-CASE-XLE-01182] c 27 N71-15635
Electrostatic ion rocket engine Patent
[NASA-CASE-XLE-02066] c 28 N71-15661
Control of transverse instability in rocket combustors Patent
[NASA-CASE-XLE-04603] c 33 N71-21507
Vapor liquid separator Patent
[NASA-CASE-XMF-04042] c 15 N71-23023
Filler valve Patent
[NASA-CASE-XNP-01747] c 15 N71-23024
Propellant feed isolator Patent
[NASA-CASE-LEW-10210-1] c 28 N71-26781
Spherical shield Patent
[NASA-CASE-XNP-01855] c 15 N71-28937
Passive propellant system
[NASA-CASE-MFS-23642-2] c 20 N78-27176

PROPELLER BLADES

- Propeller blade loading control Patent
[NASA-CASE-XAC-00139] c 02 N70-34856

PROPELLERS

- Heads up display
[NASA-CASE-LAR-12630-1] c 06 N82-29319
Wingtip vortex propeller
[NASA-CASE-LAR-13019-1] c 02 N84-20495

PROPORTIONAL CONTROL

- Proportional controller Patent
[NASA-CASE-XAC-03392] c 03 N70-41954

PROPULSION SYSTEM CONFIGURATIONS

- Electro-thermal rocket Patent
[NASA-CASE-XLE-00267] c 28 N70-33356
Propellant grain for rocket motors Patent
[NASA-CASE-XGS-03556] c 27 N70-35534
Composite powerplant and shroud therefor Patent
[NASA-CASE-XLA-01043] c 28 N71-10780
Annular slit colloid thruster Patent
[NASA-CASE-GSC-10709-1] c 28 N71-25213
Propellant tank pressurization system Patent
[NASA-CASE-XNP-00650] c 27 N71-28929

Apparatus for endoscopic examination — analysis of the propulsion system configuration and transmitter
[NASA-CASE-NPO-14092-1] c 52 N80-16725

Propulsion apparatus and method using boil-off gas from a cryogenic liquid — controlling spacecraft attitude and drag
[NASA-CASE-MFS-25946-1] c 20 N84-15183

Aerospace vehicle
[NASA-CASE-LAR-13155-1] c 18 N84-20628

PROPULSION SYSTEM PERFORMANCE

Variable mixer propulsion cycle
[NASA-CASE-LEW-12917-1] c 07 N78-18067

PROSTHETIC DEVICES

Tactile sensing means for prosthetic limbs
[NASA-CASE-MFS-16570-1] c 05 N73-32013

Orthotic arm joint — for use in mechanical arms
[NASA-CASE-MFS-21611-1] c 54 N75-12616

Actuator device for artificial leg
[NASA-CASE-MFS-23225-1] c 52 N77-14735

Aldehyde-containing urea-absorbing polysaccharides
[NASA-CASE-NPO-13620-1] c 27 N77-30236

Rotational joint assembly for the prosthetic leg
[NASA-CASE-JSC-11004-1] c 54 N77-30749

Mechanical energy storage device for hip disarticulation
[NASA-CASE-ARC-10916-1] c 52 N78-10686

Method of adhering bone to a rigid substrate using a graphite fiber reinforced bone cement
[NASA-CASE-NPO-13764-1] c 27 N78-17215

Compact artificial hand
[NASA-CASE-NPO-13906-1] c 54 N79-24652

Prosthesis coupling
[NASA-CASE-KSC-11069-1] c 52 N79-26772

Prosthetic urinary sphincter
[NASA-CASE-MFS-23717-1] c 52 N81-25660

Texturing polymer surfaces by transfer casting — cardiovascular prosthesis
[NASA-CASE-LEW-13120-1] c 27 N82-28440

Prosthetic occlusive device for an internal passageway
[NASA-CASE-MFS-25740-1] c 52 N84-11744

PROTECTION

Apparatus and method for protecting a photographic device Patent
[NASA-CASE-NPO-10174] c 14 N71-18465

Fiber modified polyurethane foam for ballistic protection
[NASA-CASE-ARC-10714-1] c 27 N76-15310

PROTECTIVE CLOTHING

Process for conditioning tanned sharkskin and articles made therefrom Patent
[NASA-CASE-XMS-09691-1] c 18 N71-15545

Biological isolation garment Patent
[NASA-CASE-MSC-12206-1] c 05 N71-17599

Garments for controlling the temperature of the body Patent
[NASA-CASE-XMS-10269] c 05 N71-24147

Foreshortened convolute section for a pressurized suit Patent
[NASA-CASE-XMS-09637-1] c 05 N71-24730

Protective suit having an audio transceiver Patent
[NASA-CASE-KSC-10164] c 07 N71-33108

Protective garment ventilation system
[NASA-CASE-XMS-04928] c 54 N78-17679

Vitro-violet process for producing flame resistant polyamides and products produced thereby — protective clothing for high oxygen environments
[NASA-CASE-MSC-16074-1] c 27 N80-26446

PROTECTIVE COATINGS

Coating process
[NASA-CASE-XNP-06508] c 18 N69-39895

Alkali-metal silicate protective coating
[NASA-CASE-XGS-04119] c 18 N69-39979

Process for applying a protective coating for salt bath brazing Patent
[NASA-CASE-XLE-00046] c 15 N70-33311

Method and apparatus for shock protection Patent
[NASA-CASE-XLA-00482] c 15 N70-36409

Thermal control of space vehicles Patent
[NASA-CASE-XLA-01291] c 33 N70-36617

Process for preparing sterile solid propellants Patent
[NASA-CASE-XNP-01749] c 27 N70-41897

Fire resistant coating composition Patent
[NASA-CASE-GSC-10072] c 18 N71-14014

Bacteriostatic conformal coating and methods of application Patent
[NASA-CASE-GSC-10007] c 18 N71-16046

Method of coating carbonaceous base to prevent oxidation destruction and coated base Patent
[NASA-CASE-XLA-00284] c 15 N71-16075

Method of coating carbonaceous base to prevent oxidation destruction and coated base Patent
[NASA-CASE-XLA-00302] c 15 N71-16077

Aerodynamic protection for space flight vehicles Patent
[NASA-CASE-XNP-02507] c 31 N71-17679

Heat protection apparatus Patent
[NASA-CASE-XLA-00892] c 33 N71-17897

Bismuth-lead coatings for gas bearings used in atmospheric environments and vacuum chambers Patent
[NASA-CASE-XGS-02011] c 15 N71-20739

Alkali metal silicate protective coating Patent
[NASA-CASE-XGS-04799] c 18 N71-24183

Process for reducing secondary electron emission Patent
[NASA-CASE-XNP-09469] c 24 N71-25555

Solid state thermal control polymer coating Patent
[NASA-CASE-XLA-01745] c 33 N71-28903

Method of coating through-holes Patent
[NASA-CASE-XMF-05999] c 15 N71-29032

Potassium silicate zinc coatings
[NASA-CASE-GSC-10361-1] c 18 N72-23581

Method of coating solar cell with borosilicate glass and resultant product
[NASA-CASE-GSC-11514-1] c 03 N72-24037

Semiconductor surface protection material
[NASA-CASE-ERC-10339-1] c 18 N73-30532

Nonflammable coating compositions — for use in high oxygen environments
[NASA-CASE-MFS-20486-2] c 27 N74-17283

Fused silicide coatings containing discrete particles for protecting niobium alloys — used in space shuttle thermal protection systems and turbine engine components
[NASA-CASE-LEW-11179-1] c 27 N76-16229

High temperature oxidation resistant cermet compositions
[NASA-CASE-NPO-13666-1] c 27 N77-13217

Leading edge protection for composite blades
[NASA-CASE-LEW-12550-1] c 24 N77-19170

Intumescent coatings containing 4,4'-dinitrosulfanilide
[NASA-CASE-ARC-11042-1] c 24 N78-14096

Sprayable low density ablator and application process
[NASA-CASE-MFS-23506-1] c 24 N78-24290

Reaction cured glass and glass coatings
[NASA-CASE-ARC-11051-1] c 27 N78-32260

Infusible silazane polymer and process for producing same — protective coatings
[NASA-CASE-XMF-02526-1] c 27 N79-21190

Fire protection covering for small diameter missiles
[NASA-CASE-ARC-11104-1] c 15 N79-26100

Improved refractory coatings — sputtered coatings on substrates that form stable nitrides
[NASA-CASE-LEW-23169-2] c 26 N81-16209

Corrosion resistant thermal barrier coating — protecting gas turbines and other engine parts
[NASA-CASE-LEW-13088-1] c 26 N81-25188

Heat sealable, flame and abrasion resistant coated fabric — clothing and containers for space exploration
[NASA-CASE-MSC-18382-1] c 27 N82-16238

Method of protecting a surface with a silicon-slurry/aluminide coating — coatings for gas turbine engine blades and vanes
[NASA-CASE-LEW-13343-1] c 27 N82-28441

Overlay metallic-cermet alloy coating systems — for gas turbine engines
[NASA-CASE-LEW-13639-1] c 27 N82-33522

Coating with overlay metallic-cermet alloy systems
[NASA-CASE-LEW-13639-2] c 26 N83-17683

Improved nickel base coating alloy — oxidation resistant coatings
[NASA-CASE-LEW-13834-1] c 26 N83-24639

Curved film cooling admission tube
[NASA-CASE-LEW-13174-1] c 34 N83-27144

High voltage isolation transformer
[NASA-CASE-GSC-12817-1] c 33 N83-29590

Silicon-slurry/aluminide coating — protecting gas turbine engine vanes and blades
[NASA-CASE-LEW-13343] c 26 N83-31795

Covering solid, film cooled surfaces with a duplex thermal barrier coating
[NASA-CASE-LEW-13450-1] c 31 N83-35177

Corrosion resistant coating
[NASA-CASE-NPO-15928-1] c 26 N84-12289

Heat sealable, flame and abrasion resistant coated fabric
[NASA-CASE-MSC-18382-2] c 27 N84-14324

Oxidation resistant slurry coating for carbon-based materials
[NASA-CASE-LEW-13923-1] c 24 N84-16266

PROTECTORS

Load cell protection device Patent
[NASA-CASE-XMS-06782] c 32 N71-15974

Omnidirectional multiple impact landing system Patent
[NASA-CASE-XLA-09881] c 31 N71-16085

PROTEINS

Protein sterilization method of firefly luciferase using reduced pressure and molecular sieves
[NASA-CASE-GSC-10225-1] c 06 N73-27086

PROTON FLUX DENSITY

Flame detector operable in presence of proton radiation
[NASA-CASE-MFS-21577-1] c 19 N74-29410

PROXIMITY

Focal plane array optical proximity sensor
[NASA-CASE-NPO-15155-1] c 74 N81-22894

PSEUDONOISE

Rapid sync acquisition system Patent
[NASA-CASE-NPO-10214] c 10 N71-26577

Pseudonoise sequence generators with three tap linear feedback shift registers
[NASA-CASE-NPO-11406] c 08 N73-12175

Two carrier communication system with single transmitter
[NASA-CASE-NPO-11548] c 07 N73-26118

Pseudo-noise test set for communication system evaluation — test signals
[NASA-CASE-MFS-22671-1] c 35 N75-21582

Pseudonoise code tracking loop
[NASA-CASE-MSC-18035-1] c 32 N81-15179

PULLEYS

Tension measurement device Patent
[NASA-CASE-XMS-04545] c 15 N71-22878

Tensile strength testing device Patent
[NASA-CASE-XNP-05634] c 15 N71-24834

PULLING

Containerless high purity pulling process and apparatus for glass fibers
[NASA-CASE-MFS-25905-1] c 74 N83-35825

PULMONARY CIRCULATION

Resuscitation apparatus Patent
[NASA-CASE-XMS-01115] c 05 N70-39922

PULMONARY FUNCTIONS

Instrument for use in performing a controlled Valsalva maneuver Patent
[NASA-CASE-XMS-01615] c 05 N70-41329

PULSE AMPLITUDE

System for monitoring signal amplitude ranges
[NASA-CASE-XMS-04061-1] c 09 N69-39885

Analog to digital converter Patent
[NASA-CASE-XLA-00670] c 08 N71-12501

Pulse amplitude and width detector Patent
[NASA-CASE-XMF-06519] c 09 N71-12519

Analog-to-digital converter
[NASA-CASE-XNP-00477] c 08 N73-28045

Electro-mechanical sine/cosine generator
[NASA-CASE-LAR-11389-1] c 33 N77-26387

Speech analyzer
[NASA-CASE-GSC-11898-1] c 32 N77-30309

Power factor control system for ac induction motors
[NASA-CASE-MFS-23988-1] c 33 N81-27395

Video processor for air traffic control beacon system
[NASA-CASE-KSC-11155-1] c 33 N81-15395

PULSE AMPLITUDE MODULATION

Signal ratio system utilizing voltage controlled oscillators Patent
[NASA-CASE-XMF-04367] c 09 N71-23545

Pulse switching for high energy lasers
[NASA-CASE-NPO-14556-1] c 33 N82-24418

PULSE CODE MODULATION

Adaptive compression of communication signals Patent
[NASA-CASE-XLA-03076] c 07 N71-11266

Bi-polar phase detector and corrector for split phase PCM data signals Patent
[NASA-CASE-XGS-01590] c 07 N71-12392

System for recording and reproducing pulse code modulated data Patent
[NASA-CASE-XGS-01021] c 08 N71-21042

Frequency shift keying apparatus Patent
[NASA-CASE-XGS-01537] c 07 N71-23405

Data compression system
[NASA-CASE-NPO-11243] c 07 N72-20154

Method and apparatus for frequency-division multiplex communications by digital phase shift of carrier
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- Method for attaching a fused-quartz mirror to a conductive metal substrate
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X-ray position detector
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[NASA-CASE-XLE-00011] c 14 N70-41946

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[NASA-CASE-LEW-11390-2] c 25 N76-27383

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[NASA-CASE-XNP-01310] c 33 N71-28852

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[NASA-CASE-XLA-07424] c 14 N71-18482

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[NASA-CASE-LEW-10210-1] c 28 N71-26781

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[NASA-CASE-XMF-03934] c 09 N71-22985

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[NASA-CASE-MFS-20095] c 24 N72-11595

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[NASA-CASE-NPO-11686] c 14 N73-25462

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[NASA-CASE-LEW-11162-1] c 33 N74-12913

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[NASA-CASE-XLE-02792] c 26 N71-10607

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[NASA-CASE-XKS-09348] c 09 N71-13521

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[NASA-CASE-XKS-09340] c 07 N71-24614

Unfurlable structure including coiled strips thrust launched upon tension release Patent
[NASA-CASE-HQN-00937] c 07 N71-28979

Highly efficient antenna system using a corrugated horn and scanning hyperbolic reflector
[NASA-CASE-NPO-13568-1] c 32 N76-21365

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Millimeter wave radiometer for radio astronomy Patent
[NASA-CASE-XNP-09832] c 30 N71-23723

RADIO BEACONS
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[NASA-CASE-GSC-12148-1] c 32 N79-20296

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[NASA-CASE-XGS-02816] c 07 N69-24323

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[NASA-CASE-XMS-05307] c 09 N69-24330

Radio frequency shielded enclosure Patent
[NASA-CASE-XMF-09422] c 07 N71-19436

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[NASA-CASE-XMF-08665] c 10 N71-19467

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[NASA-CASE-XGS-02610] c 14 N71-23174

Radio frequency coaxial high pass filter Patent
[NASA-CASE-XGS-01418] c 09 N71-23573

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[NASA-CASE-XNP-09830] c 14 N71-26266

Signal path series step biased multidevice high efficiency amplifier Patent
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Method and apparatus for sputtering utilizing an apertured electrode and a pulsed substrate bias
[NASA-CASE-LEW-10920-1] c 17 N73-24569

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[NASA-CASE-LAR-11021-1] c 32 N76-14321

Ion and electron detector for use in an ICR spectrometer
[NASA-CASE-NPO-13479-1] c 35 N77-10492

Radio frequency arraying method for receivers
[NASA-CASE-NPO-14328-1] c 32 N80-18253

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[NASA-CASE-XER-11019] c 09 N71-23598

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[NASA-CASE-GSC-12150-1] c 32 N79-11265

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[NASA-CASE-ERC-10119] c 26 N72-21701

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[NASA-CASE-XGS-00740] c 07 N71-23098

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[NASA-CASE-XLA-00210] c 30 N70-40309

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[NASA-CASE-XNP-09832] c 30 N71-23723

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[NASA-CASE-XGS-01812] c 07 N71-23001

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[NASA-CASE-NPO-15202-1] c 27 N83-34043

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Vehicle locating system utilizing AM broadcasting station carriers
[NASA-CASE-NPO-13217-1] c 32 N75-26194

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[NASA-CASE-MFS-16609-3] c 03 N76-32140

Low-frequency radio navigation system
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[NASA-CASE-NPO-10753] c 03 N72-26031

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[NASA-CASE-LEW-11227-1] c 73 N75-30876

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[NASA-CASE-MSC-14276-1] c 52 N77-14737

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[NASA-CASE-NPO-10810] c 14 N71-27323

Thermoelectric radiometer utilizing polymer film
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Two color horizon sensor
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Clear air turbulence detector
[NASA-CASE-ERC-10081] c 14 N72-28437

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[NASA-CASE-XLA-02619] c 10 N71-26334

Environmental fog/rain visual display system for aircraft simulators
[NASA-CASE-ARC-11158-1] c 09 N82-24212

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[NASA-CASE-LAR-12264-1] c 15 N78-32168

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[NASA-CASE-XNP-01501] c 21 N70-41930

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[NASA-CASE-NPO-11194] c 08 N72-25209

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[NASA-CASE-XGS-03505] c 03 N71-10808

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[NASA-CASE-HQN-10595-1] c 27 N82-29455

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Inert gas metallic vapor laser
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[NASA-CASE-XLA-00327] c 25 N71-29184

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[NASA-CASE-LAR-10128-1] c 08 N73-20217

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[NASA-CASE-XMF-00906] c 09 N70-41655

RC rate generator for slow speed measurement Patent
[NASA-CASE-XMF-02966] c 10 N71-24863

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[NASA-CASE-XLA-08799] c 10 N71-27272

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[NASA-CASE-MFS-21087-1] c 35 N74-17153

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[NASA-CASE-NPO-14019-1] c 32 N79-14268

System for real-time crustal deformation monitoring
[NASA-CASE-NPO-14124-1] c 46 N80-14603

X-ray position detector
[NASA-CASE-NPO-12087-1] c 74 N81-18898

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[NASA-CASE-NPO-14054-1] c 32 N82-12297

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[NASA-CASE-MFS-25752-1] c 74 N83-21950

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[NASA-CASE-MSC-12259-1] c 07 N70-12616

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SCR lamp driver [NASA-CASE-GSC-10221-1] c 09 N72-23171

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Process for making anhydrous metal halides [NASA-CASE-LEW-11860-1] c 37 N76-18458

Curable liquid hydrocarbon prepolymers containing hydroxyl groups and process for producing same [NASA-CASE-NPO-13137-1] c 27 N80-32514

Hydrodesulfurization of chlorinated coal [NASA-CASE-NPO-15304-1] c 25 N83-31743

REDUNDANCY

Reconfiguring redundancy management [NASA-CASE-MSC-18498-1] c 60 N82-29013

REDUNDANT COMPONENTS

Redundant memory organization Patent [NASA-CASE-GSC-10564] c 10 N71-29135

Redundant disc [NASA-CASE-LEW-12496-1] c 07 N78-33101

Redundant motor drive system [NASA-CASE-MFS-23777-1] c 37 N80-32716

Redundant operation of counter modules [NASA-CASE-NPO-14162-1] c 60 N81-15706

REELS

Method and apparatus for measuring web material wound on a reel [NASA-CASE-GSC-11902-1] c 38 N77-17495

REENTRY COMMUNICATION

Electrostatic plasma modulator for space vehicle re-entry communication Patent [NASA-CASE-XLA-01400] c 07 N70-41331

Means for communicating through a layer of ionized gases Patent [NASA-CASE-XLA-01127] c 07 N70-41372

Reentry communication by material addition Patent [NASA-CASE-XLA-01552] c 07 N71-11284

REENTRY SHIELDING

Transpirationally cooled heat ablation system Patent [NASA-CASE-XMS-02677] c 31 N70-42075

Method and apparatus for making a heat insulating and ablative structure Patent [NASA-CASE-XMS-02009] c 33 N71-20834

Stand-off type ablative heat shield [NASA-CASE-MSC-12143-1] c 33 N72-17947

Protected isotope heat source — for atmospheric reentry protection and heat transmission to spacecraft [NASA-CASE-LEW-11227-1] c 73 N75-30876

Fibrous refractory composite insulation — shielding reusable spacecraft [NASA-CASE-ARC-11169-1] c 24 N79-24062

Adjustable high emittance gap filler — reentry shielding for space shuttle vehicles [NASA-CASE-ARC-11310-1] c 27 N82-24339

Method for repair of thin glass coatings — on space shuttle orbiter tiles [NASA-CASE-KSC-11097-1] c 27 N82-33520

REENTRY TRAJECTORIES

Hypersonic reentry vehicle Patent [NASA-CASE-XMS-04142] c 31 N70-41631

REENTRY VEHICLES

Reentry vehicle leading edge Patent [NASA-CASE-XLA-00165] c 31 N70-33242

Variable-geometry winged reentry vehicle Patent [NASA-CASE-XLA-00241] c 31 N70-37986

Telespectrograph Patent [NASA-CASE-XLA-03273] c 14 N71-18699

Ablation sensor Patent [NASA-CASE-XLA-01791] c 14 N71-22991

Ring wing tension vehicle Patent [NASA-CASE-XLA-04901] c 31 N71-24315

Ferry system [NASA-CASE-LAR-10574-1] c 11 N73-13257

Vortex breach high pressure gas generator [NASA-CASE-LAR-10549-1] c 31 N73-13898

Three-component ceramic coating for silica insulation [NASA-CASE-MSC-14270-2] c 27 N76-23426

REFERENCE SYSTEMS

Automatic frequency control loop including synchronous switching circuits [NASA-CASE-KSC-10393] c 09 N72-21247

Magnetic heading reference [NASA-CASE-LAR-11387-2] c 04 N77-19056

REFINING

Helium refining by superfluidity Patent [NASA-CASE-NXP-00733] c 06 N70-34946

Fluidized bed coal liquefaction [NASA-CASE-NPO-15891-1] c 25 N83-36120

REFLECTANCE

Optical characteristics measuring apparatus Patent [NASA-CASE-XNP-08840] c 23 N71-16365

Gravimeter Patent [NASA-CASE-XMF-05844] c 14 N71-17587

Optical mirror apparatus Patent [NASA-CASE-ERC-10001] c 23 N71-24868

REFLECTED WAVES

Device and method for determining X ray reflection efficiency of optical surfaces [NASA-CASE-MFS-20243] c 23 N73-13662

Clear air turbulence detector [NASA-CASE-MFS-21244-1] c 36 N75-15028

Reflected-wave maser — low noise amplifier [NASA-CASE-NPO-13490-1] c 36 N76-31512

X-ray imaging mirror system and method of producing the same [NASA-CASE-NPO-15828-1] c 74 N83-30222

REFLECTING TELESCOPES

Anastigmatic three-mirror telescope [NASA-CASE-MFS-23675-1] c 89 N79-10969

REFLECTION

Synthesis of zinc titanate pigment and coatings containing the same [NASA-CASE-MFS-13532] c 18 N72-17532

Method and apparatus for compensating reflection losses in a path length modulated absorption-absorption trace gas detector — for determining density of gas [NASA-CASE-ARC-10631-1] c 74 N76-20958

REFLECTOMETERS

Ellipsoidal mirror reflectometer including means for averaging the radiation reflected from the sample Patent [NASA-CASE-XGS-05291] c 23 N71-16341

Real time reflectometer — measurement of specular reflectance [NASA-CASE-MFS-23118-1] c 35 N77-31465

Coal-shale interface detection [NASA-CASE-MFS-23720-3] c 43 N79-25443

Visible and infrared polarization ratio spectrophotometer [NASA-CASE-LAR-12285-1] c 35 N80-28687

REFLECTORS

Reflector space satellite Patent [NASA-CASE-XLA-00138] c 31 N70-37981

Self-erecting reflector Patent [NASA-CASE-XGS-09190] c 31 N71-16102

Spectroscope equipment using a slender cylindrical reflector as a substitute for a slit Patent [NASA-CASE-XGS-08269] c 23 N71-26206

Conical reflector antenna [NASA-CASE-NPO-10303] c 07 N72-22127

Target acquisition antenna [NASA-CASE-GSC-10064-1] c 10 N72-22235

Multi-purpose antenna employing dish reflector with plural coaxial horn feeds [NASA-CASE-NPO-11264] c 07 N72-25174

Multiple reflection conical microwave antenna [NASA-CASE-NPO-11661] c 07 N73-14130

Non-tracking solar energy collector system [NASA-CASE-NPO-13813-1] c 44 N78-31526

Heat reflecting field stop [NASA-CASE-LAR-12443-1] c 74 N82-19030

Solar cell having improved back surface reflector [NASA-CASE-LEW-13620-1] c 44 N83-13579

Acoustic suspension system [NASA-CASE-NPO-15435-1] c 71 N83-36846

REFRACTIVITY

The 2 deg/90 deg laboratory scattering photometer — particulate refractivity in hydrosols [NASA-CASE-GSC-12088-1] c 74 N78-13874

Chromatically corrected virtual image visual display — reducing eye strain in flight simulators [NASA-CASE-LAR-12251-1] c 74 N80-27185

Dual laser optical system and method for studying fluid flow [NASA-CASE-MFS-25315-1] c 36 N83-29680

X-ray imaging mirror system and method of producing the same [NASA-CASE-NPO-15828-1] c 74 N83-30222

REFRACTORY COATINGS

Refractory coatings and method of producing the same [NASA-CASE-LEW-13169-1] c 26 N82-29415

Refractory coatings [NASA-CASE-LEW-13169-2] c 26 N82-30371

Method for repair of thin glass coatings — on space shuttle orbiter tiles [NASA-CASE-KSC-11097-1] c 27 N82-33520

REFRACTORY MATERIALS

High temperature testing apparatus Patent [NASA-CASE-XLE-00335] c 14 N70-35368

Prestressed refractory structure Patent [NASA-CASE-XNP-02888] c 18 N71-21068

- Method of manufacturing semiconductor devices using refractory dielectrics
[NASA-CASE-XER-08476-1] c 26 N72-17820
- High temperature furnace for melting materials in space
[NASA-CASE-MFS-20710] c 11 N72-23215
- High temperature resistant cermet and ceramic compositions --- for thermal resistant insulators and refractory coatings
[NASA-CASE-NPO-13690-1] c 27 N78-18302
- High temperature resistant cermet and ceramic compositions
[NASA-CASE-NPO-13690-2] c 27 N79-14213
- Fibrous refractory composite insulation --- shielding reusable spacecraft
[NASA-CASE-ARC-11169-1] c 24 N79-24062
- Catalytic trimerization of aromatic nitriles and triaryl-*s*-triazine ring cross-linked high temperature resistant polymers and copolymers made thereby
[NASA-CASE-LEW-12053-2] c 27 N79-28307
- Improved refractory coatings --- sputtered coatings on substrates that form stable nitrides
[NASA-CASE-LEW-23169-2] c 26 N81-16209
- Castable high temperature refractory materials
[NASA-CASE-LEW-13080-2] c 27 N82-11210
- Adjustable high emittance gap filler --- reentry shielding for space shuttle vehicles
[NASA-CASE-ARC-11310-1] c 27 N82-24339
- Attachment system for silica tiles --- thermal protection for space shuttle orbiter
[NASA-CASE-MSC-18741-1] c 27 N82-29456
- Densification of porous refractory substrates --- space shuttle orbiter tiles
[NASA-CASE-MSC-18737-1] c 24 N83-13171
- Method of repairing surface damage to porous refractory substrates --- space shuttle orbiter tiles
[NASA-CASE-MSC-18736-1] c 24 N83-13172
- High temperature silicon carbide impregnated insulating fabrics
[NASA-CASE-MSC-18832-1] c 27 N83-18908
- Apparatus for accurately preloading auger attachment means for frangible protective material
[NASA-CASE-MSC-18791-1] c 37 N83-36482
- REFRACTORY METALS**
- Radiant heater having formed filaments Patent
[NASA-CASE-XLE-00387] c 33 N70-34812
- Method of producing refractory bodies having controlled porosity Patent
[NASA-CASE-LEW-10393-1] c 17 N71-15468
- Multilayer porous ionizer Patent
[NASA-CASE-XNP-04338] c 17 N71-23046
- Brazing alloy Patent
[NASA-CASE-XNP-03063] c 17 N71-23365
- Thermal radiation shielding Patent
[NASA-CASE-XLE-03432] c 33 N71-24145
- Method of producing refractory composites containing tantalum carbide, hafnium carbide, and hafnium boride Patent
[NASA-CASE-XLE-03940] c 18 N71-26153
- Silicide coatings for refractory metals Patent
[NASA-CASE-XLE-10910] c 18 N71-29040
- Refractory metal base alloy composites
[NASA-CASE-XLE-03940-2] c 17 N72-28536
- Fused silicide coatings containing discrete particles for protecting niobium alloys --- used in space shuttle thermal protection systems and turbine engine components
[NASA-CASE-LEW-11179-1] c 27 N76-16229
- Method of making an apertured casting --- using duplicate mold
[NASA-CASE-LEW-11169-1] c 37 N76-23570
- REFRIGERATING**
- Helium refrigerator and method for decontaminating the refrigerator
[NASA-CASE-NPO-10634] c 23 N72-25619
- Magnetic heat pumping
[NASA-CASE-LEW-12508-3] c 34 N83-29625
- REFRIGERATING MACHINERY**
- Refrigeration apparatus
[NASA-CASE-NPO-10309] c 15 N69-23190
- Refrigeration apparatus Patent
[NASA-CASE-XNP-08877] c 15 N71-23025
- Dual solid cryogenics for spacecraft refrigeration Patent
[NASA-CASE-GSC-10188-1] c 23 N71-24725
- Stirling cycle engine and refrigeration systems
[NASA-CASE-NPO-13613-1] c 37 N76-29590
- Cycling Joule Thomson refrigerator
[NASA-CASE-NPO-15251-1] c 31 N83-31897
- Vibration isolation and pressure compensation apparatus for sensitive instrumentation
[NASA-CASE-LAR-12728-1] c 35 N83-32026
- REFRIGERATORS**
- Intermittent type silica gel adsorption refrigerator Patent
[NASA-CASE-XNP-00920] c 15 N71-15906
- Helium refrigerator
[NASA-CASE-NPO-13435-1] c 31 N76-14284
- Thermal compensator for closed-cycle helium refrigerator --- assuring constant temperature for an infrared laser diode
[NASA-CASE-GSC-12168-1] c 31 N79-17029
- Magnetically actuated compressor
[NASA-CASE-GSC-12799-1] c 37 N83-20153
- REGENERATION (ENGINEERING)**
- Switching circuit employing regeneratively connected complementary transistors Patent
[NASA-CASE-XNP-02654] c 10 N70-42032
- Regenerative braking system Patent
[NASA-CASE-XMF-01096] c 10 N71-16030
- Free-piston regenerative hot gas hydraulic engine
[NASA-CASE-LEW-12274-1] c 37 N80-31790
- REGENERATION (PHYSIOLOGY)**
- Implantable electrical device
[NASA-CASE-GSC-12560-1] c 52 N82-29863
- REGENERATIVE COOLING**
- Formed metal ribbon wrap Patent
[NASA-CASE-XLE-00164] c 15 N70-36411
- Method of making a regeneratively cooled combustion chamber Patent
[NASA-CASE-XLE-00150] c 28 N70-41818
- Small rocket engine Patent
[NASA-CASE-XLE-00685] c 28 N70-41992
- Combustion chamber Patent
[NASA-CASE-XLE-04857] c 28 N71-23968
- Method of making apparatus for sensing temperature
[NASA-CASE-XLE-05230-2] c 14 N73-13417
- REGENERATIVE FUEL CELLS**
- Electrolytically regenerative hydrogen-oxygen fuel cell Patent
[NASA-CASE-XLE-04526] c 03 N71-11052
- REGENERATORS**
- Code regenerative clean-up loop transponder for a mu-type ranging system
[NASA-CASE-NPO-11707] c 07 N73-25161
- Magnetic heat pumping
[NASA-CASE-LEW-12508-3] c 34 N83-29625
- REGISTERS (COMPUTERS)**
- Variable digital processor including a register for shifting and rotating bits in either direction Patent
[NASA-CASE-GSC-10186] c 08 N71-33110
- Priority interrupt system --- comprised of four registers
[NASA-CASE-NPO-13067-1] c 60 N76-18800
- REINFORCED PLASTICS**
- Tube fabricating process
[NASA-CASE-LAR-10203-1] c 15 N72-16330
- Reinforced structural plastics
[NASA-CASE-LEW-10199-1] c 27 N74-23125
- REINFORCEMENT (STRUCTURES)**
- Reinforcing means for diaphragms Patent
[NASA-CASE-XNP-01962] c 32 N70-41370
- REINFORCING FIBERS**
- Reinforced metallic composites Patent
[NASA-CASE-XLE-02428] c 17 N70-33288
- Method of making fiber reinforced metallic composites Patent
[NASA-CASE-XLE-00231] c 17 N70-38198
- Method for producing fiber reinforced metallic composites Patent
[NASA-CASE-XLE-03925] c 18 N71-22894
- Thermal protection ablation spray system Patent
[NASA-CASE-XLA-04251] c 18 N71-26100
- Method of preparing graphite reinforced aluminum composite
[NASA-CASE-MFS-21077-1] c 24 N75-28135
- Crystalline polyimides --- reinforcing fibers for high temperature composites and adhesives as well as flame retardation
[NASA-CASE-LAR-12099-1] c 27 N80-16158
- Composition and method for making polyimide resin-reinforced fabric
[NASA-CASE-LEW-12933-1] c 27 N81-19296
- High modulus rare earth and beryllium containing silicate glass compositions --- for glass reinforcing fibers
[NASA-CASE-HQN-10595-1] c 27 N82-29455
- Method of carbonizing polyacrylonitrile fibers
[NASA-CASE-ARC-11261-1] c 24 N83-25789
- Fluoroether modified epoxy composites
[NASA-CASE-ARC-11418-1] c 24 N84-11213
- RELAXATION OSCILLATORS**
- Voltage to frequency converter Patent
[NASA-CASE-GSC-10022-1] c 10 N71-25882
- RELAY SATELLITES**
- Satellite communication system and method Patent
[NASA-CASE-GSC-10118-1] c 07 N71-24621
- Satellite personal communications system
[NASA-CASE-NPO-14480-1] c 32 N80-20448
- RELEASING**
- Despin weight release Patent
[NASA-CASE-XLA-00679] c 15 N70-38601
- Quick attach and release fluid coupling assembly Patent
[NASA-CASE-XKS-01985] c 15 N71-10782
- Redundant actuating mechanism Patent
[NASA-CASE-XGS-08718] c 15 N71-24600
- Quick release hook tape Patent
[NASA-CASE-XMS-10660-1] c 15 N71-25975
- Delayed simultaneous release mechanism
[NASA-CASE-GSC-10814-1] c 03 N73-20039
- Tool for releasing optical elements
[NASA-CASE-GSC-12794-1] c 37 N83-12434
- RELIABILITY ANALYSIS**
- Program for computer aided reliability estimation
[NASA-CASE-NPO-13086-1] c 15 N73-12495
- RELIABILITY ENGINEERING**
- Method of improving the reliability of a rolling element system Patent
[NASA-CASE-XLE-02999] c 15 N71-16052
- Inspection gage for boss Patent
[NASA-CASE-XMF-04966] c 14 N71-17658
- Valving device for automatic refilling in cryogenic liquid systems
[NASA-CASE-NPO-11177] c 15 N72-17453
- Electrical connector
[NASA-CASE-NPO-10694] c 09 N72-20200
- Inherent redundancy electric heater
[NASA-CASE-MFS-21462-1] c 33 N74-14935
- Hollow rolling element bearings
[NASA-CASE-LEW-11087-3] c 37 N74-21064
- Reconfiguring redundancy management
[NASA-CASE-MSC-18498-1] c 60 N82-29013
- RELIEF VALVES**
- Relief valve
[NASA-CASE-XMS-05894-1] c 15 N69-21924
- Zero gravity separator Patent
[NASA-CASE-XLE-00586] c 15 N71-15968
- Redundant hydraulic control system for actuators
[NASA-CASE-MFS-20944] c 15 N73-13466
- Prosthetic urinary sphincter
[NASA-CASE-MFS-23717-1] c 52 N81-25660
- Ion beam sputter-etched ventricular catheter for hydrocephalus shunt
[NASA-CASE-XLEW-13107-1] c 52 N83-21785
- REMOTE CONTROL**
- Electromagnetic mirror drive system
[NASA-CASE-XLA-03724] c 14 N69-27461
- Tubular coupling having frangible connecting means
[NASA-CASE-XLA-02854] c 15 N69-27490
- Bi-metallic power controlled actuator
[NASA-CASE-XNP-09776] c 09 N69-39929
- Fluid coupling Patent
[NASA-CASE-XLE-00397] c 15 N70-36492
- Umbilical disconnect Patent
[NASA-CASE-XLA-00711] c 03 N71-12258
- Remote controlled tubular disconnect Patent
[NASA-CASE-XLA-01396] c 03 N71-12259
- Three-axis finger tip controller for switches Patent
[NASA-CASE-XAC-02405] c 09 N71-16089
- Satellite communication system Patent
[NASA-CASE-XNP-02389] c 07 N71-28900
- Method and apparatus for aligning a laser beam projector Patent
[NASA-CASE-NPO-11087] c 23 N71-29125
- Solid state remote circuit selector switch
[NASA-CASE-LEW-10387] c 09 N72-22201
- Laser communication system for controlling several functions at a location remote to the laser
[NASA-CASE-LAR-10311-1] c 16 N73-16536
- Cooperative multi-axis sensor for teleoperation of article manipulating apparatus
[NASA-CASE-NPO-13386-1] c 54 N75-27758
- Remotely operable articulated manipulator
[NASA-CASE-MFS-22707-1] c 37 N76-15457
- Remote manipulator system
[NASA-CASE-MFS-22022-1] c 37 N76-15460
- Remote lightning monitor system
[NASA-CASE-KSC-11031-1] c 33 N79-11315
- Simulator method and apparatus for practicing the mating of an observer-controlled object with a target
[NASA-CASE-MFS-23052-2] c 74 N79-13855
- Terminal guidance sensor system
[NASA-CASE-NPO-14521-1] c 54 N79-20748
- Terminal guidance sensor system --- space shuttle coupling to orbiting satellites
[NASA-CASE-NPO-14521-1] c 37 N81-27519
- REMOTE HANDLING**
- Remote control manipulator for zero gravity environment
[NASA-CASE-MFS-14405] c 15 N72-28495
- Apparatus for remote handling of materials --- mixing or analyzing dangerous chemicals
[NASA-CASE-LAR-10834-1] c 37 N74-18123
- Anthropomorphic master/slave manipulator system
[NASA-CASE-ARC-10756-1] c 54 N77-32721
- Controller arm for a remotely related slave arm
[NASA-CASE-ARC-11052-1] c 37 N79-28551
- Apparatus for sequentially transporting containers
[NASA-CASE-MFS-23846-1] c 37 N82-32731

REMOTE MANIPULATOR SYSTEM

Coupling device for moving vehicles
[NASA-CASE-GSC-12322-1] c 37 N80-14398
Apparatus for adapting an end effector device remotely
controlled manipulator arm
[NASA-CASE-MFS-25949-1] c 37 N84-11501

REMOTE SENSING

Method and apparatus for Delta K synthetic aperture
radar measurement of ocean current
[NASA-CASE-NPO-15704-1] c 32 N82-28502

REMOTE SENSORS

Passive optical wind and turbulence detection system
Patent
[NASA-CASE-XMF-14032] c 20 N71-16340
Pressure monitoring with a plurality of ionization gauges
controlled at a central location Patent
[NASA-CASE-XLE-00787] c 14 N71-21090
Flow angle sensor and read out system Patent
[NASA-CASE-XLE-04503] c 14 N71-24864
Time synchronization system utilizing moon reflected
coded signals Patent
[NASA-CASE-NPO-10143] c 10 N71-26326
Clear air turbulence detector
[NASA-CASE-ERC-10081] c 14 N72-28437
Intruder detection system
[NASA-CASE-ARC-10097-2] c 07 N73-25160
Microwave power transmission system wherein level of
transmitted power is controlled by reflections from
receiver
[NASA-CASE-MFS-21470-1] c 44 N74-19870
Voltage monitoring system
[NASA-CASE-KSC-10736-1] c 33 N75-19521
Wind sensor
[NASA-CASE-NPO-13462-1] c 35 N76-24524
Focused laser Doppler velocimeter
[NASA-CASE-MFS-23178-1] c 35 N77-10493
Wind measurement system
[NASA-CASE-MFS-23362-1] c 47 N77-10753
Penetrometer — for determining load bearing
characteristics of inclined surfaces
[NASA-CASE-NPO-11103-1] c 35 N77-27367
Remote sensing of vegetation and soil using microwave
ellipsometry
[NASA-CASE-GSC-11976-1] c 43 N78-10529
Remote water monitoring system
[NASA-CASE-LAR-11973-1] c 35 N78-27384
Radar target for remotely sensing hydrological
phenomena
[NASA-CASE-LAR-12344-1] c 43 N80-18498
Optical system
[NASA-CASE-NPO-15801-1] c 74 N83-25541
Portable laser remote system for methane gas
detection
[NASA-CASE-NPO-15790-1] c 36 N83-33137

REMOTELY PILOTED VEHICLES

Rotating launch device for a remotely piloted aircraft
[NASA-CASE-ARC-10979-1] c 09 N77-19076

REMOVAL

Catalyst bed removing tool Patent
[NASA-CASE-XFR-00811] c 15 N70-36901
Recovery of aluminum from composite propellants
[NASA-CASE-NPO-14110-1] c 28 N81-15119
Acoustic bubble removal method
[NASA-CASE-NPO-15334-1] c 71 N83-35781

REPEATERS

Time division radio relay synchronizing system using
different sync code words for in sync and out of sync
conditions Patent
[NASA-CASE-GSC-10373-1] c 07 N71-19773

REPLACING

Electron beam tube containing a multiple cathode array
employing indexing means for cathode substitution
Patent
[NASA-CASE-NPO-10625] c 09 N71-26182

MECHANICAL FASTENER

[NASA-CASE-LAR-12738-2] c 18 N84-15180

REPLENISHMENT

Hot melt recharge system — space maintenance
[NASA-CASE-LAR-12881-2] c 27 N84-15271

RESCUE OPERATIONS

Backpack carrier Patent
[NASA-CASE-LAR-10056] c 05 N71-12351
Rescue litter flotation assembly Patent
[NASA-CASE-XMS-04170] c 05 N71-22748
Method of locating persons in distress — by using radar
imagery from radar reflectors
[NASA-CASE-LAR-11390-1] c 32 N77-21267

RESEARCH AND DEVELOPMENT

Tube fabricating process
[NASA-CASE-LAR-10203-1] c 15 N72-16330

RESEARCH VEHICLES

Lunar landing flight research vehicle Patent
[NASA-CASE-XFR-00929] c 31 N70-34966
Velocity limiting safety system Patent
[NASA-CASE-XLA-07473] c 15 N71-24895

RESIDUAL STRESS

Miniature stress transducer Patent
[NASA-CASE-XNP-02983] c 14 N71-21091
Method of making a perspiration resistant biopotential
electrode
[NASA-CASE-MS-C-90153-2] c 05 N72-25120

RESILIENCE

Resilience testing device Patent
[NASA-CASE-XLA-08254] c 14 N71-26181

RESIN BONDING

Method and apparatus for bonding a plastics sleeve onto
a metallic body Patent
[NASA-CASE-XLA-01262] c 15 N71-21404
Covered silicon solar cells and method of manufacture
— with polymeric films
[NASA-CASE-LEW-11065-2] c 44 N76-14600
Method of manufacture of bonded fiber flywheel —
fiberglass-epoxy
[NASA-CASE-MFS-23674-1] c 24 N81-29163

RESIN MATRIX COMPOSITES

Phosphorus-containing bismide resins
[NASA-CASE-ARC-11321-1] c 27 N81-27272
Improved high temperature resistant polyimides
[NASA-CASE-LEW-13864-1] c 27 N83-17715
Elastomer coated filler and composites thereof
comprising at least 60% by weight of a hydrated filler and
an elastomer containing an acid substituent
[NASA-CASE-NPO-14857-1] c 27 N83-19900
Method of tracing contour patterns for use in making
gradual contour resin matrix composites
[NASA-CASE-ARC-11246-1] c 31 N83-34073
Process for improving moisture resistance of epoxy
resins by addition of cobalt ions — potential applications
to composite matrix resins, adhesives, and casting resins
for aerospace utilization
[NASA-CASE-LAR-13230-1] c 27 N84-20701

RESINS

Modified polyurethane foams for fuel-fire Patent
[NASA-CASE-ARC-10098-1] c 06 N71-24739
Bonding or repairing process
[NASA-CASE-MS-C-12357] c 15 N73-12489
Semiconductor surface protection material
[NASA-CASE-ERC-10339-1] c 18 N73-30532
Composite lamination method
[NASA-CASE-LAR-12019-1] c 24 N78-17150
Polyvinyl alcohol cross-linked with two aldehydes
[NASA-CASE-LEW-13504-1] c 25 N83-13188
Phosphorus-containing imide resins
[NASA-CASE-ARC-11368-1] c 27 N83-31854

RESISTANCE

Method of making a perspiration resistant biopotential
electrode
[NASA-CASE-MS-C-90153-2] c 05 N72-25120
Variable resistance constant tension and lubrication
device — using oil-saturated leather wiper
[NASA-CASE-KSC-10723-1] c 37 N75-13265

RESISTANCE HEATING

Electrothermal rockets having improved heat
exchangers Patent
[NASA-CASE-XLE-01783] c 28 N70-34175
Glass heating panels and method for preparing the same
from architectural reflective glass
[NASA-CASE-NPO-15753-1] c 33 N82-23396

RESISTORS

High isolation RF signal selection switches
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[NASA-CASE-XGS-08269] c 23 N71-26206
Resolution enhanced sound detecting apparatus
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Focal axis resolver for offset reflector antennas
[NASA-CASE-GSC-12630-1] c 33 N83-36355
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[NASA-CASE-LAR-12638-1] c 04 N84-14132

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Optically selective, acoustically resonant gas detecting
transducer
[NASA-CASE-ARC-10639-1] c 35 N78-13400
Resonant isolator for maser amplifier
[NASA-CASE-NPO-15201-1] c 36 N83-35350

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Vibrating element electrometer with output signal
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Apparatus for detecting the amount of material in a
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[NASA-CASE-XNP-02500] c 18 N71-27397
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CW ultrasonic bolt tensioning monitor
[NASA-CASE-LAR-12016-1] c 39 N78-15512
Microbalance — for measuring particle mass
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Method and apparatus for shaping and enhancing
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[NASA-CASE-NPO-16142-1] c 71 N84-16948

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Patent
[NASA-CASE-XNP-01390] c 28 N70-41275
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[NASA-CASE-XLE-00685] c 28 N70-41992

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- Annular rocket motor and nozzle configuration Patent
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- Supersonic-combustion rocket
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- System for imposing directional stability on a rocket-propelled vehicle
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- Channel-type shell construction for rocket engines and the like Patent
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- Method of igniting solid propellants Patent
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Lubricated journal bearing
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Apparatus for and method of compensating dynamic unbalance
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Family of airfoil shapes for rotating blades — for increased power efficiency and blade stability
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ROTATING BODIES
Optical spin compensator
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[NASA-CASE-XLE-00155] c 28 N71-29154

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[NASA-CASE-LEW-10533-2] c 37 N74-11300

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[NASA-CASE-LEW-12312-1] c 07 N77-32148

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Damping seal for turbomachinery
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Magnetic position detection method and apparatus
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[NASA-CASE-XLA-07473] c 15 N71-24895

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[NASA-CASE-MS-C-12397-1] c 05 N72-25119

Totally confined explosive welding — apparatus to reduce noise level and protect personnel during explosive bonding
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Microwave power transmission beam safety system
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Safety shield for vacuum/pressure chamber viewing port
[NASA-CASE-GSC-12513-1] c 31 N81-19343

Variable response load limiting device — for aircraft seats
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[NASA-CASE-XLE-00046] c 15 N70-33311

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CCD correlated quadruple sampling processor
[NASA-CASE-NPO-14426-1] c 33 N79-17134

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Meteoroid sensing apparatus having a coincidence network connected to a pair of capacitors Patent
[NASA-CASE-XLE-01246] c 14 N71-10797

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[NASA-CASE-GSC-12032-2] c 43 N82-13465

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Hermetic seal for a shaft
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Portable 90 deg proof loading device
[NASA-CASE-MSC-20250-1] c 37 N83-29707

SHALE OIL
In-situ laser retorting of oil shale
[NASA-CASE-LEW-12217-1] c 43 N78-14452

SHALES
Coal-shale interface detection
[NASA-CASE-MFS-23720-3] c 43 N79-25443

Coal-shale interface detection system
[NASA-CASE-MFS-23720-2] c 43 N80-14423

Coal-shale interface detector
[NASA-CASE-MFS-23720-1] c 43 N80-23711

SHAPE MEMORY ALLOYS
Rotary stepping device with memory metal actuator
[NASA-CASE-NPO-15482-1] c 37 N83-36484

Memory metal actuator — for use in electromechanical servomechanisms
[NASA-CASE-NPO-15960-1] c 37 N83-36485

SHAPED CHARGES
Coupling for linear shaped charge Patent
[NASA-CASE-XLA-00189] c 33 N70-36846

Lateral displacement system for separated rocket stages
[NASA-CASE-XLA-04804] c 31 N71-23008

SHAPERS
Mandrel for shaping solid propellant rocket fuel into a motor casing Patent
[NASA-CASE-XLA-00304] c 27 N70-34783

Tube dimpling tool Patent
[NASA-CASE-XMS-06876] c 15 N71-21536

Dielectric molding apparatus Patent
[NASA-CASE-LAR-10121-1] c 15 N71-26721

SHARKS
Process for conditioning tanned sharkskin and articles made therefrom Patent
[NASA-CASE-XMS-09691-1] c 18 N71-15545

SHARPNESS
Method of forming a sharp edge on an optical device
[NASA-CASE-GSC-12348-1] c 74 N80-24149

SHEAR CREEP
Instrument for measuring torsional creep and recovery Patent
[NASA-CASE-XLE-01481] c 14 N71-10781

SHEAR FLOW
Shear modulated fluid amplifier Patent
[NASA-CASE-MFS-10412] c 12 N71-17578

SHEAR PROPERTIES
Parallel plate viscometer Patent
[NASA-CASE-XNP-09462] c 14 N71-17584

SHEAR STRESS
Fatigue-resistant shear pin
[NASA-CASE-XLA-09122] c 15 N69-27505

Angular velocity and acceleration measuring apparatus
[NASA-CASE-ERC-10292] c 14 N72-25410

Bonded joint and method — for reducing peak shear stress in adhesive bonds
[NASA-CASE-LAR-10900-1] c 37 N74-23064

SHEARING
Longwall shearer tracking system
[NASA-CASE-MFS-25717-1] c 43 N83-14607

Elastomer coated filler and composites thereof comprising at least 60% by weight of a hydrated filler and an elastomer containing an acid substituent
[NASA-CASE-NPO-14857-1] c 27 N83-19900

SHELLS (STRUCTURAL FORMS)
Channel-type shell construction for rocket engines and the like Patent
[NASA-CASE-XLE-00144] c 28 N70-34860

Ring-cusp ion thruster with shell anode
[NASA-CASE-LEW-13881-1] c 72 N83-21903

SHIELDING
Spherical shield Patent
[NASA-CASE-XNP-01855] c 15 N71-28937

Shielded flat cable
[NASA-CASE-MFS-13687-2] c 09 N72-22198

System for the measurement of ultra-low straylight levels — determining the adequacy of large space telescope systems
[NASA-CASE-MFS-23513-1] c 74 N79-11865

SHIFT REGISTERS
Binary to binary-coded-decimal converter Patent
[NASA-CASE-XNP-00432] c 08 N70-35423

Linear three-tap feedback shift register Patent
[NASA-CASE-NPO-10351] c 08 N71-12503

Counter and shift register Patent
[NASA-CASE-XNP-01753] c 08 N71-22897

Current steering commutator
[NASA-CASE-NPO-10743] c 08 N72-21199

Feedback shift register with states decomposed into cycles of equal length
[NASA-CASE-NPO-11082] c 08 N72-22167

MOD 2 sequential function generator for multibit binary sequence
[NASA-CASE-NPO-10636] c 08 N72-25210

Pseudonoise sequence generators with three tap linear feedback shift registers
[NASA-CASE-NPO-11406] c 08 N73-12175

A m-ary linear feedback shift register with binary logic
[NASA-CASE-NPO-11868] c 10 N73-20254

Counting digital filters
[NASA-CASE-NPO-11821-1] c 08 N73-26175

Event sequence detector
[NASA-CASE-NPO-11703-1] c 10 N73-32144

Method and apparatus for decoding compatible convolutional codes
[NASA-CASE-MSC-14070-1] c 32 N74-32588

Nonlinear nonsingular feedback shift registers
[NASA-CASE-NPO-13451-1] c 33 N76-14373

Selective data segment monitoring system — using shift registers
[NASA-CASE-ARC-10899-1] c 60 N77-19760

Digital data reformatter/deserializer
[NASA-CASE-NPO-13678-1] c 60 N79-20751

SHOCK ABSORBERS
Pivotal shock absorbing pad assembly Patent
[NASA-CASE-XMF-03856] c 31 N70-34159

Frangible tube energy dissipation Patent
[NASA-CASE-XLA-00754] c 15 N70-34850

Shock absorbing support and restraint means Patent
[NASA-CASE-XMS-01240] c 05 N70-35152

Energy absorbing structure Patent Application
[NASA-CASE-MSC-12279-1] c 15 N70-35679

Landing pad assembly for aerospace vehicles Patent
[NASA-CASE-XMF-02853] c 31 N70-36654

Space craft soft landing system Patent
[NASA-CASE-XMF-02108] c 31 N70-36845

Double-acting shock absorber Patent
[NASA-CASE-XMF-01045] c 15 N70-40354

Articulated multiple couch assembly Patent
[NASA-CASE-MSC-11253] c 05 N71-12343

Shock absorber Patent
[NASA-CASE-XMS-03722] c 15 N71-21530

Impact energy absorber Patent
[NASA-CASE-XLA-01530] c 14 N71-23092

Low onset rate energy absorber
[NASA-CASE-MSC-12279] c 15 N72-17450

Impact energy absorbing system utilizing fractureable material
[NASA-CASE-NPO-10671] c 15 N72-20443

Translatory shock absorber for attitude sensors
[NASA-CASE-MFS-22905-1] c 19 N76-22284

Vehicular impact absorption system
[NASA-CASE-NPO-14014-1] c 37 N79-10420

Variable response load limiting device — for aircraft seats
[NASA-CASE-LAR-12801-1] c 37 N82-20544

SHOCK LOADS
Wind tunnel model damper Patent
[NASA-CASE-XLA-09480] c 11 N71-33612

SHOCK MEASURING INSTRUMENTS
Semiconductor projectile impact detector
[NASA-CASE-MFS-23008-1] c 35 N78-18390

SHOCK RESISTANCE
Method and apparatus for shock protection Patent
[NASA-CASE-XLA-00482] c 15 N70-36409

Thermal shock resistant hafnia ceramic material
[NASA-CASE-LAR-10894-1] c 18 N73-14584

Thermal shock and erosion resistant tantalum carbide ceramic material
[NASA-CASE-LAR-11902-1] c 27 N78-17206

Laser surface fusion of plasma sprayed ceramic turbine seals
[NASA-CASE-LEW-13269-1] c 18 N83-20996

Improved impact tolerant material
[NASA-CASE-LAR-12887-1] c 24 N84-20649

SHOCK TUBES
Means for controlling rupture of shock tube diaphragms Patent
[NASA-CASE-XAC-00731] c 11 N71-15960

Shock tube bypass piston tunnel
[NASA-CASE-NPO-12109] c 11 N72-22245

Annular arc accelerator shock tube
[NASA-CASE-NPO-13528-1] c 09 N77-10071

SHOCK WAVE INTERACTION
Absorptive splitter for closely spaced supersonic engine air inlets Patent
[NASA-CASE-XLA-02865] c 28 N71-15563

SHOCK WAVE LUMINESCENCE
Shock-layer radiation measurement
[NASA-CASE-XAC-02970] c 14 N69-39896

SIGNAL ANALYSIS

SHOCK WAVE PROFILES
Shock-layer radiation measurement
[NASA-CASE-XAC-02970] c 14 N69-39896

Adapter for mounting a microphone flush with the external surface of the skin of a pressurized aircraft
[NASA-CASE-FRC-11072-1] c 05 N83-27975

SHOCK WAVES
Shock tube powder dispersing apparatus Patent
[NASA-CASE-XLE-04946] c 17 N71-24911

Shock wave convergence apparatus
[NASA-CASE-MFS-20890] c 14 N72-22439

Synthesis of superconducting compounds by explosive compaction of powders
[NASA-CASE-MFS-20861-1] c 18 N73-32437

Shock position sensor for supersonic inlets — measuring pressure in the throat of a supersonic inlet
[NASA-CASE-LEW-11915-1] c 35 N76-14431

SHOES
Jet shoes
[NASA-CASE-XLA-08491] c 05 N69-21380

SHORT CIRCUITS
Protection for energy conversion systems
[NASA-CASE-XGS-04808] c 03 N69-25146

Triode thermionic energy converter
[NASA-CASE-XLE-01015] c 03 N69-39898

Analog to digital converter tester Patent
[NASA-CASE-XLA-06713] c 14 N71-28991

Apparatus including a plurality of spaced transformers for locating short circuits in cables
[NASA-CASE-KSC-10899-1] c 33 N79-18193

Test apparatus for locating shorts during assembly of electrical buses
[NASA-CASE-ARC-11116-1] c 33 N82-24420

SHOT PEENING
Method of peening and portable peening gun
[NASA-CASE-MFS-23047-1] c 37 N76-18454

SHROUDED NOZZLES
Two dimensional wedge/translating shroud nozzle
[NASA-CASE-LAR-11919-1] c 07 N78-27121

SHROUDED TURBINES
Composite seal for turbomachinery — backings for turbine engine shrouds
[NASA-CASE-LEW-12131-1] c 37 N79-18318

Gas path seal
[NASA-CASE-NPO-12131-3] c 37 N80-18400

Composite seal for turbomachinery
[NASA-CASE-LEW-12131-2] c 37 N80-26658

Laser surface fusion of plasma sprayed ceramic turbine seals
[NASA-CASE-LEW-13269-1] c 18 N83-20996

SHROUDS
Composite powerplant and shroud therefor Patent
[NASA-CASE-XLA-01043] c 28 N71-10780

Composite seal for turbomachinery — backings for turbine engine shrouds
[NASA-CASE-LEW-12131-1] c 37 N79-18318

Composite seal for turbomachinery
[NASA-CASE-LEW-12131-3] c 37 N82-19540

Active clearance control system for a turbomachine
[NASA-CASE-LEW-12938-1] c 07 N82-32366

SHUTTERS
High speed shutter — electrically actuated ribbon loop for shuttering optical or fluid passageways
[NASA-CASE-ARC-10516-1] c 70 N74-21300

SHUTTLE DERIVED VEHICLES
Three stage rocket vehicle with parallel staging — space transportation system
[NASA-CASE-MFS-25878-1] c 18 N83-12138

SIDE INLETS
Low-drag ground vehicle particularly suited for use in safety transporting livestock
[NASA-CASE-FRC-11058-1] c 85 N82-33288

SIDEBANDS
Phase-locked loop with sideband rejecting properties Patent
[NASA-CASE-XNP-02723] c 07 N70-41680

SIDELobe REDUCTION
Dual mode horn antenna Patent
[NASA-CASE-XNP-01057] c 07 N71-15907

Video processor for air traffic control beacon system
[NASA-CASE-KSC-11155-1] c 33 N84-15395

SIGNAL ANALYSIS
Signal detection and tracking apparatus Patent
[NASA-CASE-XGS-03502] c 10 N71-20852

Method and apparatus for a single channel digital communications system — synchronization of received PCM signal by digital correlation with reference signal
[NASA-CASE-NPO-11302-2] c 32 N74-10132

Differential phase shift keyed signal resolver
[NASA-CASE-MSC-14066-1] c 33 N74-27705

Correlation type phase detector — with time correlation integrator for frequency multiplexed signals
[NASA-CASE-GSC-11744-1] c 33 N75-26243

Real time analysis of voiced sounds
[NASA-CASE-NPO-13465-1] c 32 N76-31372

- Digital plus analog output encoder
[NASA-CASE-GSC-12115-1] c 62 N76-31946
- Serial data correlator/code translator
[NASA-CASE-KSC-11025-1] c 32 N83-13323
- Video processor for air traffic control beacon system
[NASA-CASE-KSC-11155-1] c 33 N84-15395
- SIGNAL ANALYZERS**
- System for monitoring signal amplitude ranges
[NASA-CASE-XMS-04061-1] c 09 N69-39885
- Sampled data controller Patent
[NASA-CASE-GSC-10554-1] c 08 N71-29033
- Family of frequency to amplitude converters
[NASA-CASE-MSC-12395] c 09 N72-25257
- Apparatus for statistical time-series analysis of electrical signals
[NASA-CASE-MSC-12428-1] c 10 N73-25240
- Pulse stretcher for narrow pulses
[NASA-CASE-MSC-14130-1] c 33 N74-32711
- Electronic optical transfer function analyzer
[NASA-CASE-MFS-21672-1] c 74 N76-19935
- Speech analyzer
[NASA-CASE-GSC-11898-1] c 32 N77-30309
- SIGNAL DETECTION**
- Position location system and method Patent
[NASA-CASE-GSC-10087-2] c 21 N71-13958
- Method of detecting impending saturation of magnetic cores
[NASA-CASE-ERC-10089] c 23 N72-17747
- Anti-multipath digital signal detector
[NASA-CASE-LAR-11827-1] c 32 N77-10392
- Multiple rate digital command detection system with range clean-up capability
[NASA-CASE-NPO-13753-1] c 32 N77-20289
- Automatic communication signal monitoring system
[NASA-CASE-NPO-13941-1] c 32 N79-10262
- Apparatus and method for stabilized phase detection for binary signal tracking loops
[NASA-CASE-MSC-16461-1] c 33 N79-11313
- Receiving and tracking phase modulated signals
[NASA-CASE-MSC-16170-2] c 32 N81-16338
- SIGNAL DETECTORS**
- Surface roughness detector Patent
[NASA-CASE-XLA-00203] c 14 N70-34161
- Pulse amplitude and width detector Patent
[NASA-CASE-XMF-06519] c 09 N71-12519
- System for monitoring the presence of neutrals in a stream of ions Patent
[NASA-CASE-XNP-02592] c 24 N71-20518
- Digital modulator and demodulator Patent
[NASA-CASE-ERC-10041] c 08 N71-29138
- Coal-shale interface detection system
[NASA-CASE-MFS-23720-2] c 43 N80-14423
- Pulse transducer with artifact signal attenuator — heart rate sensors
[NASA-CASE-FRC-11012-1] c 52 N80-23969
- Self-calibrating threshold detector
[NASA-CASE-MSC-16370-1] c 35 N81-19427
- Maser amplifier slow wave structure — detecting weak signals from spacecraft
[NASA-CASE-NPO-15211-1] c 36 N81-24425
- Triac failure detector
[NASA-CASE-MFS-25607-1] c 33 N83-34190
- SIGNAL DISTORTION**
- Low distortion receiver for bi-level baseband PCM waveforms
[NASA-CASE-MSC-14557-1] c 32 N76-16249
- SIGNAL ENCODING**
- Adaptive compression of communication signals Patent
[NASA-CASE-XLA-03076] c 07 N71-11266
- Self-calibrating threshold detector
[NASA-CASE-MSC-16370-1] c 35 N81-19427
- Random digital encryption secure communication system
[NASA-CASE-MSC-16462-1] c 32 N82-31583
- SIGNAL GENERATORS**
- Plural recorder system
[NASA-CASE-XMS-06949] c 09 N69-21467
- Signal generator
[NASA-CASE-XNP-05612] c 09 N69-21468
- Means for generating a sync signal in an FM communication system Patent
[NASA-CASE-XNP-10830] c 07 N71-11281
- Array phasing device Patent
[NASA-CASE-ERC-10046] c 10 N71-18722
- Sidereal frequency generator Patent
[NASA-CASE-XGS-02610] c 14 N71-23174
- Controllers Patent
[NASA-CASE-XMS-07487] c 15 N71-23255
- Signal ratio system utilizing voltage controlled oscillators Patent
[NASA-CASE-XMF-04367] c 09 N71-23545
- Signal processing apparatus for multiplex transmission Patent
[NASA-CASE-NPO-10388] c 07 N71-24622
- Multialarm summary alarm Patent
[NASA-CASE-XLE-03061-1] c 10 N71-24798
- Adaptive system and method for signal generation Patent
[NASA-CASE-GSC-11367] c 10 N71-26374
- Voltage dropout sensor Patent
[NASA-CASE-KSC-10020] c 10 N71-27338
- System for controlling the operation of a variable signal device
[NASA-CASE-NPO-11064] c 07 N72-11150
- Digital function generator
[NASA-CASE-NPO-11104] c 08 N72-22165
- Hall effect transducer
[NASA-CASE-LAR-10620-1] c 09 N72-25255
- Gunn-type solid state devices
[NASA-CASE-XER-07895] c 26 N72-25679
- Audio frequency marker system
[NASA-CASE-NPO-11147] c 14 N72-27408
- Digital servo control of random sound test excitation — in reverberant acoustic chamber
[NASA-CASE-NPO-11623-1] c 71 N74-31148
- Signal conditioner test set
[NASA-CASE-KSC-10750-1] c 35 N75-12270
- System for generating timing and control signals
[NASA-CASE-NPO-13125-1] c 33 N75-19519
- Pseudo-noise test set for communication system evaluation — test signals
[NASA-CASE-MFS-22671-1] c 35 N75-21582
- NDIR gas analyzer based on absorption modulation ratios for known and unknown samples
[NASA-CASE-ARC-10802-1] c 35 N75-30502
- Twin-capacitive shaft angle encoder with analog output signal
[NASA-CASE-ARC-10897-1] c 33 N77-31404
- Apparatus for providing a servo drive signal in a high-speed stepping interferometer
[NASA-CASE-NPO-13569-2] c 35 N79-14348
- Versatile LDV burst simulator
[NASA-CASE-LAR-11859-1] c 35 N79-14349
- Underwater seismic source — for petroleum exploration
[NASA-CASE-NPO-14255-1] c 46 N79-23555
- Frequency translating phase conjugation circuit for active retrodirective antenna array — microwave transmission
[NASA-CASE-NPO-14536-1] c 32 N81-14185
- Integrated control system for a gas turbine engine
[NASA-CASE-LEW-12594-2] c 07 N81-19116
- Motor power factor controller with a reduced voltage starter
[NASA-CASE-MFS-25586-1] c 33 N82-11360
- Inflight IFR procedures simulator
[NASA-CASE-KSC-11218-1] c 09 N82-29331
- Combinational logic for generating gate drive signals for phase control rectifiers
[NASA-CASE-MSC-25208-1] c 33 N83-10345
- Adaptive reference voltage generator for firing angle control of line-commutated inverters
[NASA-CASE-MFS-25215-1] c 33 N83-31953
- Magnetic heading reference
[NASA-CASE-LAR-12638-1] c 04 N84-14132
- SIGNAL MIXING**
- Signal multiplexer
[NASA-CASE-XGS-01110] c 07 N69-24334
- Baseband signal combiner for large aperture antenna array
[NASA-CASE-NPO-14641-1] c 32 N81-29308
- SIGNAL PROCESSING**
- Adaptive compression of communication signals Patent
[NASA-CASE-XLA-03076] c 07 N71-11266
- Television signal scan rate conversion system Patent
[NASA-CASE-XMS-07168] c 07 N71-11300
- Difference circuit Patent
[NASA-CASE-XNP-08274] c 10 N71-13537
- Correlation function apparatus Patent
[NASA-CASE-XNP-00746] c 07 N71-21476
- Sidereal frequency generator Patent
[NASA-CASE-XGS-02610] c 14 N71-23174
- Feedback integrator with grounded capacitor Patent
[NASA-CASE-XAC-10607] c 10 N71-23669
- Signal processing apparatus for multiplex transmission Patent
[NASA-CASE-NPO-10388] c 07 N71-24622
- Television signal processing system Patent
[NASA-CASE-NPO-10140] c 07 N71-24742
- Electronic scanning of 2-channel monopulse patterns Patent
[NASA-CASE-GSC-10269-1] c 09 N71-24804
- Remodulator filter Patent
[NASA-CASE-NPO-10198] c 09 N71-24806
- Video sync processor Patent
[NASA-CASE-KSC-10002] c 10 N71-25865
- Transient video signal recording with expanded playback Patent
[NASA-CASE-ARC-10003-1] c 09 N71-25866
- Phase multiplying electronic scanning system Patent
[NASA-CASE-NPO-10302] c 10 N71-26142
- Variable frequency nuclear magnetic resonance spectrometer Patent
[NASA-CASE-XNP-09830] c 14 N71-26266
- Digital modulator and demodulator Patent
[NASA-CASE-ERC-10041] c 08 N71-29138
- Digital pulse width selection circuit Patent
[NASA-CASE-XLA-07788] c 09 N71-29139
- Phase shift circuit apparatus
[NASA-CASE-ARC-10269-1] c 10 N72-16172
- Contourograph system for monitoring electrocardiograms
[NASA-CASE-MSC-13407-1] c 10 N72-20225
- Recorder using selective noise filter
[NASA-CASE-ERC-10112] c 07 N72-21119
- Logarithmic function generator utilizing an exponentially varying signal in an inverse manner
[NASA-CASE-ERC-10267] c 09 N72-23173
- Flexible computer accessed telemetry
[NASA-CASE-NPO-11358] c 07 N72-25172
- Data processor with conditionally supplied clock signals
[NASA-CASE-GSC-10975-1] c 08 N73-13187
- Multichannel telemetry system
[NASA-CASE-NPO-11572] c 07 N73-16121
- Measurement system
[NASA-CASE-MFS-20658-1] c 14 N73-30386
- Digital to analog conversion apparatus
[NASA-CASE-MSC-12458-1] c 08 N73-32081
- Fluid pressure amplifier and system
[NASA-CASE-LAR-10868-1] c 33 N74-11050
- Low level signal limiter
[NASA-CASE-XLE-04791] c 32 N74-22096
- Miniature multichannel biotelemetry system
[NASA-CASE-NPO-13065-1] c 52 N74-26625
- Apparatus and method for processing Korotkov sounds — for blood pressure measurement
[NASA-CASE-MSC-13999-1] c 52 N74-26626
- Pulse stretcher for narrow pulses
[NASA-CASE-MSC-14130-1] c 33 N74-32711
- Continuous Fourier transform method and apparatus — for the analysis of simultaneous analog signal components
[NASA-CASE-ARC-10466-1] c 60 N75-13539
- Signal conditioning circuit apparatus — with constant input impedance
[NASA-CASE-ARC-10348-1] c 33 N75-19518
- Television noise reduction device
[NASA-CASE-MSC-12607-1] c 32 N75-21485
- Isolated output system for a class D switching-mode amplifier
[NASA-CASE-MFS-21616-1] c 33 N75-30429
- Compact bi-phase pulse coded modulation decoder
[NASA-CASE-KSC-10834-1] c 33 N76-14371
- Filtering device — removing electromagnetic noise from voice communication signals
[NASA-CASE-MFS-22729-1] c 32 N76-21366
- System for measuring Reynolds in a turbulently flowing fluid — signal processing
[NASA-CASE-ARC-10755-2] c 34 N76-27517
- Three phase full wave dc motor decoder
[NASA-CASE-GSC-11824-1] c 33 N77-26386
- Apparatus for determining thermophysical properties of test specimens
[NASA-CASE-LAR-11883-1] c 09 N77-27131
- Analog to digital converter for two-dimensional radiant energy array computers
[NASA-CASE-GSC-11839-3] c 60 N77-32731
- Hearing aid malfunction detection system
[NASA-CASE-MSC-14916-1] c 33 N78-10375
- Swept group delay measurement
[NASA-CASE-NPO-13909-1] c 33 N78-25319
- Quadrature demodulation
[NASA-CASE-GSC-12137-1] c 33 N78-32338
- Bit error rate measurement above and below bit rate tracking threshold
[NASA-CASE-MSC-12743-1] c 32 N79-10263
- Multibeam single frequency synthetic aperture radar processor for imaging separate range swaths
[NASA-CASE-NPO-14525-1] c 32 N79-19195
- Electrochemical detection device — for use in microbiology
[NASA-CASE-LAR-11922-1] c 25 N79-24073
- Scannable beam forming interferometer antenna array system
[NASA-CASE-GSC-12365-1] c 32 N80-28578
- System for plotting subsoil structure and method therefor
[NASA-CASE-NPO-14191-1] c 31 N80-32584
- CCD correlated quadruple sampling processor
[NASA-CASE-NPO-14426-1] c 33 N81-27396
- Interleaving device
[NASA-CASE-GSC-12111-2] c 33 N81-29342

Wideband passive synthetic-aperture multichannel receiver
[NASA-CASE-NPO-15651-1] c 32 N82-26523

Television camera video level control system — space shuttle orbiters
[NASA-CASE-MSC-18578-1] c 74 N82-27121

Reconfiguring redundancy management
[NASA-CASE-MSC-18498-1] c 60 N82-29013

Discriminator aided phase lock acquisition for suppressed carrier signals
[NASA-CASE-NPO-14311-1] c 33 N82-29539

Serial data correlator/code translator
[NASA-CASE-KSC-11025-1] c 32 N83-13323

Optical stereo video signal processor — line of sight tracking
[NASA-CASE-MFS-25752-1] c 74 N83-21950

Power control for ac motor
[NASA-CASE-MFS-25862] c 33 N83-28329

Interferometric angle monitor
[NASA-CASE-GSC-12614-1] c 74 N83-32577

SIGNAL RECEPTION

Radar ranging receiver Patent
[NASA-CASE-XNP-00748] c 07 N70-36911

Reflectometer for receiver input-impedance match measurement Patent
[NASA-CASE-XNP-10843] c 07 N71-11267

Diversity receiving system with diversity phase lock Patent
[NASA-CASE-XGS-01222] c 10 N71-20841

Signal detection and tracking apparatus Patent
[NASA-CASE-XGS-03502] c 10 N71-20852

Optimum predetection diversity receiving system Patent
[NASA-CASE-XGS-00740] c 07 N71-23098

Decoder system Patent
[NASA-CASE-NPO-10118] c 07 N71-24741

Antenna array phase quadrature tracking system Patent
[NASA-CASE-MSC-12205-1] c 07 N71-27056

Electricity measurement devices employing liquid crystalline materials
[NASA-CASE-ERC-10275] c 26 N72-25680

Filter for third order phase locked loops
[NASA-CASE-NPO-11941-1] c 10 N73-27171

Ferrofluidic solenoid
[NASA-CASE-NPO-11738-1] c 09 N73-30185

Scan converting video tape recorder
[NASA-CASE-NPO-10168-2] c 35 N76-16391

Receiving and tracking phase modulated signals
[NASA-CASE-MSC-16170-2] c 32 N81-16338

Faraday rotation measurement method and apparatus
[NASA-CASE-NPO-14839-1] c 35 N82-15381

A single frequency multitransmitter telemetry system
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Method and apparatus for transfer function simulator for testing complex systems
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Signal ratio system utilizing voltage controlled oscillators Patent
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[NASA-CASE-XLE-00808] c 24 N71-10560

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[NASA-CASE-XLE-10715] c 26 N71-23292

Silicon solar cell with cover glass bonded to cell by metal pattern Patent
[NASA-CASE-XLE-08569] c 03 N71-23449

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- Production of high purity silicon carbide Patent
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[NASA-CASE-XNP-01960] c 09 N71-23027

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[NASA-CASE-XLE-08569] c 03 N71-23449

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Solar cell Patent
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High voltage, high current Schottky barrier solar cell
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- Method and apparatus for measuring minority carrier lifetimes and bulk diffusion length in P-N junction solar cells
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- SOLAR COLLECTORS**
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Wide angle sun sensor --- consisting of cylinder, insulation and pair of detectors
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Sidereal frequency generator Patent
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- SOLAR REFLECTORS**
Foldable solar concentrator Patent
[NASA-CASE-XLA-04622] c 03 N70-41580
Solar cell including second surface mirrors Patent
[NASA-CASE-NPO-10109] c 03 N71-11049
Method and apparatus for making curved reflectors Patent
[NASA-CASE-XLE-08917] c 15 N71-15597
Thermal pump-compressor for space use Patent
[NASA-CASE-XLA-00377] c 33 N71-17610
Apparatus for making curved reflectors Patent
[NASA-CASE-XLE-08917-2] c 15 N71-24836
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Lightweight reflector assembly
[NASA-CASE-NPO-13707-1] c 74 N77-28933
Primary reflector for solar energy collection systems
[NASA-CASE-NPO-13579-4] c 44 N79-14529
Primary reflector for solar energy collection systems and method of making same
[NASA-CASE-NPO-13579-3] c 44 N79-24432
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[NASA-CASE-NPO-14021-2] c 27 N80-16163
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Plurality of photosensitive cells on a pyramidal base for planetary trackers
[NASA-CASE-XNP-04180] c 07 N69-39736
Space vehicle attitude control Patent
[NASA-CASE-XNP-00485] c 21 N70-35395
Sun tracker with rotatable plane-parallel plate and two photocells Patent
[NASA-CASE-XGS-01159] c 21 N71-10678
Solar sensor having coarse and fine sensing with matched preirradiated cells and method of selecting cells Patent
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Sun direction detection system
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Sun tracking solar energy collector
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Solar tracking system
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Sun sensing guidance system for high altitude aircraft
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Cloud cover sensor
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- SOLAR SIMULATORS**
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- SOLDERED JOINTS**
Soldering device Patent
[NASA-CASE-XLA-08911] c 15 N71-27214
- SOLDERING**
Solder flux which leaves corrosion-resistant coating Patent
[NASA-CASE-XNP-03459-2] c 18 N71-15688
Soldering with solder flux which leaves corrosion resistant coating Patent
[NASA-CASE-XNP-03459] c 15 N71-21078
Method of plating copper on aluminum Patent
[NASA-CASE-XLA-08966-1] c 17 N71-25903
Resistance soldering apparatus
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Positive contact resistance soldering unit
[NASA-CASE-KSC-10242] c 15 N72-23497
Bonding machine for forming a solar array strip
[NASA-CASE-NPO-13852-2] c 44 N79-24431
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Method of coating circuit paths on printed circuit boards with solder Patent
[NASA-CASE-XMF-01599] c 09 N71-20705
Method for attaching a fused-quartz mirror to a conductive metal substrate
[NASA-CASE-MFS-23405-1] c 26 N77-29260
- SOLENOID VALVES**
Two-step rocket engine bipropellant valve Patent
[NASA-CASE-XMS-04890-1] c 15 N70-22192
Automatic recording McLeod gauge Patent
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Solenoid valve including guide for armature and valve member
[NASA-CASE-GSC-10607-1] c 15 N72-20442
- Remote fire stack igniter --- with solenoid-controlled valve
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- SOLENOIDS**
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[NASA-CASE-XNP-01951] c 09 N70-41929
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[NASA-CASE-NPO-10716] c 09 N71-24892
Rotary solenoid shutter drive assembly and rotary inertia damper and stop plate assembly --- for use with cameras mounted in satellites
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- SOLID CRYOGEN COOLING**
Cooling by conversion of para to ortho-hydrogen
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- SOLID ELECTRODES**
Polymeric electrolytic hygrometer
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Additive for zinc electrodes --- electric automobiles
[NASA-CASE-LEW-13286-1] c 33 N84-14422
- SOLID LUBRICANTS**
Bonded solid lubricant coating Patent
[NASA-CASE-XMS-00259] c 18 N70-36400
Method of lubricating rolling element bearings Patent
[NASA-CASE-XLE-09527] c 15 N71-17688
Inorganic solid film lubricants Patent
[NASA-CASE-XMF-03988] c 15 N71-21403
Rolling element bearings Patent
[NASA-CASE-XLE-09527-2] c 15 N71-26189
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[NASA-CASE-LEW-11930-4] c 24 N79-17916
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Apparatus for igniting solid propellants Patent
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Molded composite pyrogen igniter for rocket motors --- solid propellant ignition
[NASA-CASE-LAR-12018-1] c 20 N78-24275
Method and apparatus for suppressing ignition overpressure in solid rocket propulsion systems
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- SOLID PROPELLANT ROCKET ENGINES**
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[NASA-CASE-XLA-00105] c 28 N70-33331
Mandrel for shaping solid propellant rocket fuel into a motor casing Patent
[NASA-CASE-XLA-00304] c 27 N70-34783
Spherically-shaped rocket motor Patent
[NASA-CASE-XHQ-01897] c 28 N70-35381
Propellant grain for rocket motors Patent
[NASA-CASE-XGS-03556] c 27 N70-35534
Apparatus and method for control of a solid fueled rocket vehicle Patent
[NASA-CASE-XNP-00217] c 28 N70-38181
Steerable solid propellant rocket motor Patent
[NASA-CASE-XNP-00234] c 28 N70-38645
Method of making a solid propellant rocket motor Patent
[NASA-CASE-XLA-04126] c 28 N71-26779
Electrical apparatus for detection of thermal decomposition of insulation Patent
[NASA-CASE-XMF-03968] c 14 N71-27186
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Solid propellant rocket motor and method of making same
[NASA-CASE-XLA-1349] c 20 N77-17143
Molded composite pyrogen igniter for rocket motors --- solid propellant ignition
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Solid propellant motor
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[NASA-CASE-MFS-25853] c 16 N83-13149
- Method and apparatus for suppressing ignition overpressure in solid rocket propulsion systems
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[NASA-CASE-XMF-00923] c 28 N70-36802
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[NASA-CASE-XNP-09763] c 14 N71-20461
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[NASA-CASE-NPO-10893] c 27 N73-22710
- SOLID ROCKET BINDERS**
Solid propellant liner Patent
[NASA-CASE-XNP-09744] c 27 N71-16392
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[NASA-CASE-NPO-14477-1] c 28 N80-28536
- SOLID ROCKET PROPELLANTS**
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[NASA-CASE-XNP-01749] c 27 N70-41897
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[NASA-CASE-XLE-03494] c 27 N71-21819
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[NASA-CASE-NPO-12000] c 27 N72-25699
Hydrazinium nitroformate propellant with saturated polymeric hydrocarbon binder
[NASA-CASE-NPO-12015] c 27 N73-16764
Preparing oxidizer coated metal fuel particles
[NASA-CASE-NPO-11975-1] c 28 N74-33209
Casting propellant in rocket engine
[NASA-CASE-LAR-11995-1] c 28 N77-10213
Solid propellant rocket motor and method of making same
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[NASA-CASE-NPO-14260-1] c 28 N79-28342
Process for the leaching of AP from propellant
[NASA-CASE-NPO-14109-1] c 28 N80-23471
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[NASA-CASE-NPO-14477-1] c 28 N80-28536
- SOLID STATE**
Solid state chemical source for ammonia beam maser Patent
[NASA-CASE-XGS-01504] c 16 N70-41578
- SOLID STATE DEVICES**
Solid state switch
[NASA-CASE-XNP-09228] c 09 N69-27500
Temperature compensated solid state differential amplifier Patent
[NASA-CASE-XAC-00435] c 09 N70-35440
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[NASA-CASE-NPO-10230] c 09 N71-12520
Microwave power receiving antenna Patent
[NASA-CASE-MFS-20333] c 09 N71-13486
Counter and shift register Patent
[NASA-CASE-XNP-01753] c 08 N71-22897
Solid state television camera system Patent
[NASA-CASE-XMF-06092] c 07 N71-24612
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[NASA-CASE-XNP-06505] c 10 N71-24799
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[NASA-CASE-ERC-10088] c 26 N71-25490
A solid state acoustic variable time delay line Patent
[NASA-CASE-ERC-10032] c 10 N71-25900
Broadband stable power multiplier Patent
[NASA-CASE-XNP-10854] c 10 N71-26331
Solid state remote circuit selector switch
[NASA-CASE-LEW-10387] c 09 N72-22201
RF controlled solid state switch
[NASA-CASE-ARC-10136-1] c 09 N72-22202
Thermal to electrical power conversion system with solid-state switches with Seebeck effect compensation
[NASA-CASE-NPO-11388] c 03 N72-23048
Radiation sensitive solid state switch
[NASA-CASE-NPO-10817-1] c 08 N73-30135
Full wave modulator-demodulator amplifier apparatus --- for generating rectified output signal
[NASA-CASE-MFS-10072-1] c 33 N74-14939
Traveling wave solid state amplifier utilizing a semiconductor with negative differential mobility
[NASA-CASE-HQN-10069] c 33 N75-27251
Solid-state current transformer
[NASA-CASE-MFS-22560-1] c 33 N77-14335
Space-charge-limited solid-state triode
[NASA-CASE-NPO-13064-1] c 33 N79-11314
Hermetically sealable package for hybrid solid-state electronic devices and the like
[NASA-CASE-MSC-20181-1] c 33 N82-28549
Control means for a solid state crossbar switch
[NASA-CASE-NPO-15068-1] c 33 N82-29538

Self-correcting electronically scanned pressure sensor
[NASA-CASE-LAR-12686-1] c 35 N84-14491

SOLID SURFACES
Dye penetrant for surfaces subsequently contacted by liquid oxygen Patent
[NASA-CASE-XMF-02221] c 18 N71-27170

SOLID WASTES
Process of forming catalytic surfaces for wet oxidation reactions
[NASA-CASE-MS-C-14831-1] c 25 N78-10225

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Coal-shale interface detection
[NASA-CASE-MFS-23720-3] c 43 N79-25443
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[NASA-CASE-MFS-23725-1] c 43 N79-31706

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[NASA-CASE-MFS-25786-1] c 76 N83-18533
Method and apparatus for supercooling and solidifying substances
[NASA-CASE-MFS-25242-1] c 35 N83-29650

SOLIDIFIED GASES
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[NASA-CASE-GSC-12770-1] c 25 N83-29324

SOLIDS
Apparatus and method to keep the walls of a free space reactor free from deposits of solid materials
[NASA-CASE-NPO-15851-1] c 73 N83-12986

SOLIDS FLOW
Use of glow discharge in fluidized beds
[NASA-CASE-ARC-11245-1] c 28 N82-18401
Acoustic agglomeration methods and apparatus
[NASA-CASE-NPO-15466-1] c 71 N82-27087

SOLUBILITY
Fire resistant coating composition Patent
[NASA-CASE-GSC-10072] c 18 N71-14014
Insoluble polyelectrolyte and ion-exchange hollow fiber impregnated therewith
[NASA-CASE-NPO-13530-1] c 25 N81-17187
Method for the preparation of thin-skinned asymmetric reverse osmosis membranes and products thereof
[NASA-CASE-ARC-11359-1] c 27 N82-28444

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Specific wavelength colorimeter --- for measuring given solute concentration in test sample
[NASA-CASE-MS-C-14081-1] c 35 N74-27860

SOLUTIONS
Asymmetric polyimide separation membrane and method
[NASA-CASE-NPO-15431-1] c 25 N81-29178
Method and apparatus for minimizing convection during crystal growth from solution
[NASA-CASE-NPO-15811-1] c 76 N84-12968

SOLVENT EXTRACTION
Recovery of aluminum from composite propellants
[NASA-CASE-NPO-14110-1] c 28 N81-15119
Supercritical multicomponent solvent coal extraction
[NASA-CASE-NPO-15767-1] c 23 N84-16255

SOLVENTS
Coal desulfurization --- using iron pentacarbonyl
[NASA-CASE-NPO-14272-1] c 25 N81-33246
A solvent resistant, thermoplastic aromatic poly(imidesulfone) and process for preparing same
[NASA-CASE-LAR-12858-2] c 27 N83-29391

SONAR
Method for shaping and aiming narrow beams --- sonar mapping and target identification
[NASA-CASE-NPO-14632-1] c 32 N82-18443
Echo tracker/range finder for radars and sonars
[NASA-CASE-NPO-14361-1] c 32 N82-23376

SONIC BOOMS
Instrumentation for measurement of aircraft noise and sonic boom
[NASA-CASE-LAR-11173-1] c 35 N75-19614
Instrumentation for measuring aircraft noise and sonic boom
[NASA-CASE-LAR-11476-1] c 07 N76-27232

SORBATES
Apparatus for measuring a sorbate dispersed in a fluid stream
[NASA-CASE-ARC-10896-1] c 35 N78-19465

SORET COEFFICIENT
Method of growing composites of the type exhibiting the Soret effect --- improved structure of eutectic alloy crystals
[NASA-CASE-MFS-22926-1] c 24 N77-27187

SOUND GENERATORS
Ejectable underwater sound source recovery assembly
[NASA-CASE-LAR-10595-1] c 35 N74-16135
Acoustic suspension system
[NASA-CASE-NPO-15435-1] c 71 N83-36846

SOUND LOCALIZATION
Resolution enhanced sound detecting apparatus
[NASA-CASE-NPO-14134-1] c 71 N79-23753

SOUND PRESSURE

Instrumentation for measurement of aircraft noise and sonic boom
[NASA-CASE-LAR-11173-1] c 35 N75-19614
Differential sound level meter
[NASA-CASE-LAR-12106-1] c 71 N78-14867

SOUND PROPAGATION
System for plotting subsoil structure and method therefor
[NASA-CASE-NPO-14191-1] c 31 N80-32584

SOUND RANGING
Echo tracker/range finder for radars and sonars
[NASA-CASE-NPO-14361-1] c 32 N82-23376

SOUND TRANSDUCERS
Method for detecting hydrogen gas
[NASA-CASE-XMF-03873] c 06 N69-39733
Cosmic dust sensor
[NASA-CASE-GSC-10503-1] c 14 N72-20381
Resolution enhanced sound detecting apparatus
[NASA-CASE-NPO-14134-1] c 71 N79-23753
Pulse transducer with artifact signal attenuator --- heart rate sensors
[NASA-CASE-FRC-11012-1] c 52 N80-23969
Acoustic system for material transport
[NASA-CASE-NPO-15453-1] c 71 N83-32515
Vibrating-chamber levitation systems
[NASA-CASE-NPO-16142-1] c 71 N84-16948

SOUND WAVES
Phonocardiograph transducer Patent
[NASA-CASE-XMS-05365] c 14 N71-22993
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[NASA-CASE-NPO-13263-1] c 12 N75-24774
Acoustic energy shaping
[NASA-CASE-NPO-13802-1] c 71 N78-10837
Acoustic driving of rotor
[NASA-CASE-NPO-14005-1] c 71 N79-20827
Acoustic particle separation
[NASA-CASE-NPO-15559-1] c 71 N82-29112
Acoustic bubble removal method
[NASA-CASE-NPO-15334-1] c 71 N83-35781

SOUNDING ROCKETS
Attitude control system for sounding rockets Patent
[NASA-CASE-XGS-01654] c 31 N71-24750
Method and system for ejecting fairing sections from a rocket vehicle
[NASA-CASE-GSC-10590-1] c 31 N73-14853

SPACE CAPSULES
Assembly for recovering a capsule Patent
[NASA-CASE-XMF-00641] c 31 N70-36410
Space capsule Patent
[NASA-CASE-XLA-01332] c 31 N71-15664
Space capsule ejection assembly Patent
[NASA-CASE-XMF-03169] c 31 N71-15675

SPACE CHARGE
Space-charge-limited solid-state triode
[NASA-CASE-NPO-13064-1] c 33 N79-11314

SPACE COMMUNICATION
Multiple input radio receiver Patent
[NASA-CASE-XLA-00901] c 07 N71-10775
Tracking receiver Patent
[NASA-CASE-XGS-08679] c 10 N71-21473
Apparatus providing a directive field pattern and attitude sensing of a spin stabilized satellite Patent
[NASA-CASE-XGS-02607] c 31 N71-23009
Space communication system for compressed data with a concatenated Reed-Solomon-Viterbi coding channel
[NASA-CASE-NPO-13545-1] c 32 N77-12240

SPACE ENVIRONMENT SIMULATION
Voltage-current characteristic simulator Patent
[NASA-CASE-XMS-01554] c 10 N71-10578
Fluid dispensing apparatus and method Patent
[NASA-CASE-XLE-01182] c 27 N71-15635
Reduced gravity simulator Patent
[NASA-CASE-XLA-01787] c 11 N71-16028
Apparatus for measuring electric field strength on the surface of a model vehicle Patent
[NASA-CASE-XLE-02038] c 09 N71-16086
Optical characteristics measuring apparatus Patent
[NASA-CASE-XNP-08840] c 23 N71-16365
Omni-directional anisotropic molecular trap Patent
[NASA-CASE-XGS-00783] c 30 N71-17788
Space environmental work simulator Patent
[NASA-CASE-XMF-07488] c 11 N71-18773
Mechanical simulator of low gravity conditions Patent
[NASA-CASE-MFS-10555] c 11 N71-19494
Self-lubricating fluoride metal composite materials Patent
[NASA-CASE-XLE-08511] c 18 N71-23710
Autoignition test cell Patent
[NASA-CASE-KSC-10198] c 11 N71-28629
Illumination system including a virtual light source Patent
[NASA-CASE-HQN-10781] c 23 N71-30292
Underwater space suit pressure control regulator
[NASA-CASE-MFS-20332] c 05 N72-20097

Diffuser/ejector system for a very high vacuum environment
[NASA-CASE-MFS-15791-1] c 37 N82-33712

SPACE ERECTABLE STRUCTURES
Flexible foam erectable space structures Patent
[NASA-CASE-XLA-00686] c 31 N70-34135
Erectable modular space station Patent
[NASA-CASE-XLA-00678] c 31 N70-34296
Manned space station Patent
[NASA-CASE-XLA-00258] c 31 N70-38676
Collapsible loop antenna for space vehicle Patent
[NASA-CASE-XMF-00437] c 07 N70-40202
Passive communication satellite Patent
[NASA-CASE-XLA-00210] c 30 N70-40309
Flexible wing deployment device Patent
[NASA-CASE-XLA-01220] c 02 N70-41863
Capillary radiator Patent
[NASA-CASE-XLE-03307] c 33 N71-14035
Space manufacturing machine Patent
[NASA-CASE-MFS-20410] c 15 N71-19214
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[NASA-CASE-NPO-10188] c 03 N71-20273
Collapsible reflector Patent
[NASA-CASE-XMS-03454] c 09 N71-20658
Inflatable support structure Patent
[NASA-CASE-XLA-01731] c 32 N71-21045
Radiator deployment actuator Patent
[NASA-CASE-MS-C-11817-1] c 15 N71-26611
Inflatable tether Patent
[NASA-CASE-XMS-10993] c 15 N71-28938
Expandable space frames
[NASA-CASE-ERC-10365-1] c 31 N73-32749
Apparatus for assembling space structure
[NASA-CASE-MFS-23579-1] c 18 N79-11108
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[NASA-CASE-LAR-12095-1] c 31 N81-25258
Telescoping columns --- parabolic antenna support
[NASA-CASE-LAR-12195-1] c 31 N81-27324
Synchronously deployable truss structure
[NASA-CASE-LAR-13117-1] c 18 N84-16250

SPACE EXPLORATION
Vehicle for use in planetary exploration
[NASA-CASE-NPO-11366] c 11 N73-26238

SPACE FLIGHT
Portable environmental control system Patent
[NASA-CASE-XMS-09632-1] c 05 N71-11203
Television simulation for aircraft and space flight Patent
[NASA-CASE-XFR-03107] c 09 N71-19449

SPACE FLIGHT FEEDING
Helmet feedport
[NASA-CASE-XMS-09653] c 54 N78-17680
Self-charging metering and dispensing device for fluids
[NASA-CASE-MS-C-20275-1] c 35 N83-17856

SPACE INDUSTRIALIZATION
Apparatus for assembling space structure
[NASA-CASE-MFS-23579-1] c 18 N79-11108

SPACE MAINTENANCE
Thruster maintenance system Patent
[NASA-CASE-MFS-20325] c 28 N71-27095
High temperature emittance coatings and coating compositions --- repairing damaged space shuttle tiles in space
[NASA-CASE-MS-C-18851-1] c 27 N82-26460
Spray applicator for spraying coatings and other fluids in space
[NASA-CASE-MS-C-18852-1] c 37 N82-28640
Mechanical fastener
[NASA-CASE-LAR-12738-1] c 18 N82-33419
Hot melt adhesive attachment pad
[NASA-CASE-LAR-12894-1] c 27 N83-34044
Hot melt recharge system --- repairing damaged or missing tiles on space shuttle orbiter
[NASA-CASE-LAR-12881-1] c 27 N84-14323
Mechanical fastener
[NASA-CASE-LAR-12738-2] c 18 N84-15180
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[NASA-CASE-LAR-12881-2] c 27 N84-15271

SPACE MANUFACTURING
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[NASA-CASE-NPO-13263-1] c 12 N75-24774
Method for manufacturing mirrors in zero gravity environment
[NASA-CASE-MS-C-12611-1] c 12 N76-15189
Apparatus for assembling space structure
[NASA-CASE-MFS-23579-1] c 18 N79-11108
Structural members, method and apparatus
[NASA-CASE-MS-C-16217-1] c 31 N81-27323
Self-locking mechanical center joint --- for space construction
[NASA-CASE-LAR-12864-1] c 37 N82-29606

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- Method of planetary atmospheric investigation using a split-trajectory dual flyby mode Patent
[NASA-CASE-XAC-08494] c 30 N71-15990
- Deep space monitor communication satellite system Patent
[NASA-CASE-XAC-06029-1] c 31 N71-24813
- A method of delivering a vehicle to earth orbit and returning the reusable portion thereof to earth
[NASA-CASE-MSC-12391] c 30 N73-12884

SPACE NAVIGATION

- Trigonometric vehicle guidance assembly which aligns the three perpendicular axes of two three-axes systems Patent
[NASA-CASE-XMF-00684] c 21 N71-21688
- Dual purpose momentum wheels for spacecraft with magnetic recording
[NASA-CASE-NPO-11481] c 21 N73-13844
- Star tracking reticles and process for the production thereof
[NASA-CASE-GSC-11188-2] c 21 N73-19630

SPACE ORIENTATION

- Method and apparatus for determining satellite orientation utilizing spatial energy sources Patent
[NASA-CASE-XGS-00466] c 21 N70-34297

SPACE PLATFORMS

- Articulated joint for deployable structures
[NASA-CASE-NPO-16038-1] c 37 N83-20157

SPACE PROCESSING

- Exothermic furnace module
[NASA-CASE-MFS-25707-1] c 35 N82-26631
- High gradient directional solidification furnace — for space processing
[NASA-CASE-MFS-25963-1] c 35 N84-16531

SPACE RENDEZVOUS

- Method and apparatus for securing to a spacecraft Patent
[NASA-CASE-MFS-11133] c 31 N71-16222

SPACE SHUTTLE ORBITERS

- Surface conforming thermal/pressure seal — tail assemblies of space shuttle orbiters
[NASA-CASE-MSC-18422-1] c 37 N82-16408
- High temperature emittance coatings and coating compositions — repairing damaged space shuttle tiles in space
[NASA-CASE-MSC-18851-1] c 27 N82-26460
- Television camera video level control system — space shuttle orbiters
[NASA-CASE-MSC-18578-1] c 74 N82-27121
- CAM controlled retractable door latch
[NASA-CASE-MSC-20304-1] c 37 N82-31690
- Space Shuttle with improved external propellant tank
[NASA-CASE-MFS-25853] c 16 N83-13149
- Shell tile thermal protection system
[NASA-CASE-LAR-12862-1] c 24 N83-17602
- Self-charging metering and dispensing device for fluids
[NASA-CASE-MSC-20275-1] c 35 N83-17856
- High temperature glass thermal control structure and coating — for application to spacecraft reusable heat shielding
[NASA-CASE-ARC-11164-1] c 44 N83-34448
- Hot melt recharge system — repairing damaged or missing tiles on space shuttle orbiter
[NASA-CASE-LAR-12881-1] c 27 N84-14323

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- Flight craft Patent
[NASA-CASE-XAC-02058] c 02 N71-16087
- A method of delivering a vehicle to earth orbit and returning the reusable portion thereof to earth
[NASA-CASE-MSC-12391] c 30 N73-12884
- Space shuttle vehicle and system
[NASA-CASE-MSC-12433] c 31 N73-14854
- Variable ratio mixed-mode bilateral master-slave control system for shuttle remote manipulator system
[NASA-CASE-MSC-14245-1] c 18 N75-27041
- Fused silicide coatings containing discrete particles for protecting niobium alloys — used in space shuttle thermal protection systems and turbine engine components
[NASA-CASE-LEW-11179-1] c 27 N76-16229
- Device for coupling a first vehicle to a second vehicle
[NASA-CASE-GSC-12429-1] c 37 N81-14320
- System for sterilizing objects — cleaning space vehicle systems
[NASA-CASE-KSC-11085-1] c 54 N81-24724
- Terminal guidance sensor system — space shuttle coupling to orbiting satellites
[NASA-CASE-NPO-14521-1] c 37 N81-27519
- Adjustable high emittance gap filler — reentry shielding for space shuttle vehicles
[NASA-CASE-ARC-11310-1] c 27 N82-24339
- Hemispherical latching apparatus for payload retention
[NASA-CASE-MFS-25837] c 16 N82-31398

SPACE SIMULATORS

- Space simulator Patent
[NASA-CASE-XNP-00459] c 11 N70-38675

- Variable geometry manned orbital vehicle Patent
[NASA-CASE-XLA-03691] c 31 N71-15674
- Space simulation and radiative property testing system and method Patent
[NASA-CASE-MFS-20096] c 14 N71-30026
- Biocentrifuge system capable of exchanging specimen cages while in operational mode
[NASA-CASE-MFS-23825-1] c 51 N81-32829

SPACE STATIONS

- Manned space station Patent
[NASA-CASE-XLA-00258] c 31 N70-38676
- Meteoroid impact position locator aid for manned space station
[NASA-CASE-LAR-10629-1] c 35 N75-33367
- Multiple in-line docking capability for rotating space stations
[NASA-CASE-MFS-20855-1] c 15 N77-10112

SPACE STORAGE

- Hemispherical latching apparatus for payload retention
[NASA-CASE-MFS-25837] c 16 N82-31398

SPACE SUITS

- Universal pilot restraint suit and body support therefor Patent
[NASA-CASE-XAC-00405] c 05 N70-41819
- Space suit pressure stabilizer Patent
[NASA-CASE-XLA-05332] c 05 N71-11194
- Equipotential space suit Patent
[NASA-CASE-LAR-10007-1] c 05 N71-11195
- Biological isolation garment Patent
[NASA-CASE-MSC-12206-1] c 05 N71-17599
- Space environmental work simulator Patent
[NASA-CASE-XMF-07488] c 11 N71-18773
- Space suit heat exchanger Patent
[NASA-CASE-MSC-09571] c 05 N71-19439
- G conditioning suit Patent
[NASA-CASE-XLA-02898] c 05 N71-20268
- Hard space suit Patent
[NASA-CASE-XAC-07043] c 05 N71-23161
- Evacuation port seal Patent
[NASA-CASE-XMF-03290] c 15 N71-23256
- Fabric for micrometeoroid protection garment Patent
[NASA-CASE-MSC-12109] c 18 N71-26285
- Venting device for pressurized space suit helmet Patent
[NASA-CASE-XMS-09652-1] c 05 N71-26333
- Automatic control of liquid cooling garment by cutaneous and external auditory meatus temperatures
[NASA-CASE-MSC-13917-1] c 05 N72-15098
- Underwater space suit pressure control regulator
[NASA-CASE-MFS-20332] c 05 N72-20097
- Space suit having improved waist and torso movement
[NASA-CASE-ARC-10275-1] c 05 N72-22092
- Underwater space suit pressure control regulator
[NASA-CASE-MFS-20332-2] c 05 N73-25125
- Temperature controller for a fluid cooled garment
[NASA-CASE-ARC-10599-1] c 05 N73-26071
- Space suit
[NASA-CASE-MSC-12609-1] c 05 N73-32012
- Non-flammable elastomeric fiber from a fluorinated elastomer and containing an halogenated flame retardant
[NASA-CASE-MSC-14331-1] c 27 N76-24405
- Protective garment ventilation system
[NASA-CASE-XMS-04928] c 54 N78-17679
- Emergency space-suit helmet
[NASA-CASE-MSC-10954-1] c 54 N78-18781
- Spacesuit mobility joints
[NASA-CASE-ARC-11058-1] c 54 N78-31735
- Spacesuit torso closure
[NASA-CASE-ARC-11100-1] c 54 N78-31738
- Cooling system for removing metabolic heat from an hermetically sealed spacesuit
[NASA-CASE-ARC-11059-1] c 54 N78-32721
- Spacesuit mobility knee joints
[NASA-CASE-ARC-11058-2] c 54 N79-24851
- Absorbent product to absorb fluids — for collection of human wastes
[NASA-CASE-MSC-18223-1] c 24 N82-29362

SPACE TOOLS

- Pneumatic inflatable end effector
[NASA-CASE-MFS-23696-1] c 54 N81-26718

SPACE TRANSPORTATION SYSTEM

- Coupling device for moving vehicles
[NASA-CASE-GSC-12322-1] c 37 N80-14398
- Three stage rocket vehicle with parallel staging — space transportation system
[NASA-CASE-MFS-25878-1] c 18 N83-12138

SPACE VEHICLE CHECKOUT PROGRAM

- Hydraulic support for dynamic testing Patent
[NASA-CASE-XMF-03248] c 11 N71-10604
- Electronic checkout system for space vehicles Patent
[NASA-CASE-KKS-08012-2] c 31 N71-15566
- High pressure gas filter system Patent
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- Interconnection of solar cells Patent
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- Solar cell and circuit array and process for nullifying magnetic fields Patent
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- High efficiency ionizer assembly Patent
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- Spacecraft docking and alignment system — using television camera system
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- Multiple in-line docking capability for rotating space stations
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- Quick disconnect latch and handle combination Patent
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- Metering gun for dispensing precisely measured charges of fluid
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[NASA-CASE-XNP-00733] c 06 N70-34946

Method and apparatus for generating coherent radiation in the ultra-violet region and above by use of distributed feedback
[NASA-CASE-NPO-13346-1] c 36 N76-29575

SUPERHEATING

Thermal energy storage system — operating on superheating of liquids
[NASA-CASE-MFS-23167-1] c 44 N76-31667

SUPERHIGH FREQUENCIES

Dual band combiner for horn antenna
[NASA-CASE-NPO-14519-1] c 32 N80-23524

SUPERPLASTICITY

Superplastically formed diffusion bonded metallic structure
[NASA-CASE-FRC-11026-1] c 24 N82-24296

SUPERSATURATION

Method and apparatus for growth of crystals by pressure reduction of supercritical or subcritical solution
[NASA-CASE-NPO-15772-1] c 76 N82-23031

SUPERSONIC AIRCRAFT

Variable sweep wing configuration Patent
[NASA-CASE-XLA-00230] c 02 N70-33255

Variable sweep aircraft wing Patent
[NASA-CASE-XLA-00350] c 02 N70-38011

Variable sweep aircraft Patent
[NASA-CASE-XLA-03659] c 02 N71-11041

Translating horizontal tail Patent
[NASA-CASE-XLA-08801-1] c 02 N71-11043

Supersonic aircraft Patent
[NASA-CASE-XLA-04451] c 02 N71-12243

Absorptive splitter for closely spaced supersonic engine air inlets Patent
[NASA-CASE-XLA-02865] c 28 N71-15563

Oblique-wing supersonic aircraft
[NASA-CASE-ARC-10470-3] c 05 N76-29217

SUPERSONIC COMBUSTION

Supersonic-combustion rocket
[NASA-CASE-LEW-11058-1] c 20 N74-13502

Hypersonic airbreathing missile
[NASA-CASE-LAR-12264-1] c 15 N78-32168

SUPERSONIC DRAG

Annular supersonic decelerator or drogue Patent
[NASA-CASE-XLE-00222] c 02 N70-37939

SUPERSONIC FLIGHT

Variable sweep wing aircraft Patent
[NASA-CASE-XLA-00221] c 02 N70-33266

High speed flight vehicle control Patent
[NASA-CASE-XLA-08967] c 02 N71-27088

SUPERSONIC FLOW

Optical probing of supersonic flows with statistical correlation
[NASA-CASE-MFS-20642] c 14 N72-21407

Stagnation pressure probe — for measuring pressure of supersonic gas streams
[NASA-CASE-LAR-11139-1] c 35 N74-32878

SUPERSONIC INLETS

Airflow control system for supersonic inlets
[NASA-CASE-LEW-11188-1] c 02 N74-20646

Shock position sensor for supersonic inlets — measuring pressure in the throat of a supersonic inlet
[NASA-CASE-LEW-11915-1] c 35 N76-14431

Hypersonic airbreathing missile
[NASA-CASE-LAR-12264-1] c 15 N78-32168

SUPERSONIC NOZZLES

Penshape exhaust nozzle for supersonic engine Patent
[NASA-CASE-XLE-00057] c 28 N70-38711

Telescoping-spike supersonic inlet for aircraft engines Patent
[NASA-CASE-XLE-00005] c 28 N70-39899

Electric arc apparatus Patent
[NASA-CASE-XAC-01677] c 09 N71-20816

Aircraft engine nozzle
[NASA-CASE-ARC-10977-1] c 07 N80-32392

SUPERSONIC SPEEDS

Continuously operating induction plasma accelerator Patent
[NASA-CASE-XLA-01354] c 25 N70-36946

Static pressure probe
[NASA-CASE-LAR-11552-1] c 35 N76-14429

SUPERSONIC TRANSPORTS

Position location system and method Patent
[NASA-CASE-GSC-10087-2] c 21 N71-13958

Traffic control system and method Patent
[NASA-CASE-GSC-10087-1] c 02 N71-19287

Position location system and method
[NASA-CASE-GSC-10087-3] c 07 N72-12080

Doppler compensation by shifting transmitted object frequency within limits
[NASA-CASE-GSC-10087-4] c 07 N73-20174

Supersonic transport — using canard surfaces
[NASA-CASE-LAR-11932-1] c 05 N78-32086

SUPERSONIC WIND TUNNELS

Wind tunnel
[NASA-CASE-LAR-10135-1] c 09 N79-21083

Sound shield
[NASA-CASE-LAR-12883-1] c 71 N83-17235

SUPPORT INTERFERENCE

Spherical bearing — to reduce vibration effects
[NASA-CASE-MFS-23447-1] c 37 N79-11404

SUPPORT SYSTEMS

Hydraulic support for dynamic testing Patent
[NASA-CASE-XMF-03248] c 11 N71-10604

Support structure for irradiated elements Patent
[NASA-CASE-XNP-06031] c 15 N71-15606

Multilegged support system Patent
[NASA-CASE-XLA-01326] c 11 N71-21481

Adjustable support
[NASA-CASE-NPO-10721] c 15 N72-27484

Hydrostatic bearing support
[NASA-CASE-LEW-11158-1] c 37 N77-28486

Metric half-span model support system
[NASA-CASE-LAR-12441-1] c 09 N82-23254

SUPPORTS

A support technique for vertically oriented launch vehicles
[NASA-CASE-XLA-02704] c 11 N69-21540

Pneumatic mirror support system
[NASA-CASE-XLA-03271] c 11 N69-24321

Optical spin compensator
[NASA-CASE-XGS-02401] c 14 N69-27485

Extensible cable support Patent
[NASA-CASE-XMF-07587] c 15 N71-18701

Swivel support for gas bearings Patent
[NASA-CASE-XMF-07808] c 15 N71-23812

Optical tracking mount Patent
[NASA-CASE-MFS-14017] c 14 N71-26627

Angular displacement indicating gas bearing support system Patent
[NASA-CASE-XLA-09346] c 15 N71-28740

Adjustable mount for a trihedral mirror Patent
[NASA-CASE-XNP-08907] c 23 N71-29123

Fine adjustment mount
[NASA-CASE-MFS-20249] c 15 N72-11386

Expandable support means
[NASA-CASE-NPO-11059] c 15 N72-17454

Optical system support apparatus
[NASA-CASE-XER-07896-2] c 23 N72-22673

Fixture for supporting articles during vibration tests
[NASA-CASE-MFS-20523] c 14 N72-27412

Test stand system for vacuum chambers
[NASA-CASE-MFS-21362] c 11 N73-20267

Collapsible structure for an antenna reflector
[NASA-CASE-NPO-11751] c 07 N73-24176

Method of making porous conductive supports for electrodes — by electroforming and stacking nickel foils
[NASA-CASE-GSC-11367-1] c 44 N74-19692

Thrust-isolating mounting — characteristics of support for loads mounted in spacecraft
[NASA-CASE-MFS-21680-1] c 18 N74-27397

Variable contour securing system
[NASA-CASE-MSC-16270-1] c 37 N78-27423

Heat treat fixture and method of heat treating
[NASA-CASE-LAR-11821-1] c 26 N80-28492

Locking mechanism for orthopedic braces
[NASA-CASE-GSC-12082-2] c 52 N81-25661

Model mount system for testing flutter
[NASA-CASE-LAR-12950-1] c 09 N83-25727

SUPPRESSORS

Electronic background suppression method and apparatus for a field scanning sensor
[NASA-CASE-XGS-05211] c 07 N69-39980

SURFACE ACOUSTIC WAVE DEVICES

Distributed feedback acoustic surface wave oscillator
[NASA-CASE-NPO-13673-1] c 71 N77-26919

A dual differential interferometer
[NASA-CASE-LAR-12966-1] c 71 N83-12969

SURFACE CRACKS

Elastomer coated filler and composites thereof comprising at least 60% by weight of a hydrated filler and an elastomer containing an acid substituent
[NASA-CASE-NPO-14857-1] c 27 N83-19900

SURFACE DEFECTS

Microwave flaw detector Patent
[NASA-CASE-ARC-10009-1] c 15 N71-17822

Method and device for detection of surface discontinuities or defects
[NASA-CASE-MSC-14187-1] c 35 N74-32879

SURFACE DIFFUSION

Metallic film diffusion for boundary lubrication Patent
[NASA-CASE-XLE-01765] c 18 N71-10772

Double-beam optical method and apparatus for measuring thermal diffusivity and other molecular dynamic processes in utilizing the transient thermal lens effect
[NASA-CASE-NPO-14657-1] c 74 N81-17887

SURFACE FINISHING

Method of forming transparent films of ZnO
[NASA-CASE-FRC-10019] c 15 N73-12487

Device and method for determining X ray reflection efficiency of optical surfaces
[NASA-CASE-MFS-20243] c 23 N73-13662

Surface finishing — for aircraft wings
[NASA-CASE-MSC-12631-1] c 24 N77-28225

Modification of the electrical and optical properties of polymers — ion irradiation to create texture
[NASA-CASE-LEW-13027-1] c 27 N80-24437

Surface finishing
[NASA-CASE-MSC-12631-3] c 27 N81-14077

Method of cold welding using ion beam technology
[NASA-CASE-LEW-12982-1] c 37 N81-19455

Surface texturing of fluoropolymers
[NASA-CASE-LEW-13028-1] c 27 N82-33521

Laser surface fusion of plasma sprayed ceramic turbine seals
[NASA-CASE-LEW-13269-1] c 18 N83-20996

Electrodes for solid state devices
[NASA-CASE-NPO-15161-1] c 33 N84-16456

SURFACE IONIZATION

Field ionization electrodes Patent
[NASA-CASE-ERC-10013] c 09 N71-26678

Method and apparatus for detecting surface ions on silicon diodes and transistors
[NASA-CASE-ERC-10325] c 15 N72-25457

SURFACE LAYERS

Bismuth-lead coatings for gas bearings used in atmospheric environments and vacuum chambers Patent
[NASA-CASE-XGS-02011] c 15 N71-20739

Method and apparatus for stable silicon dioxide layers on silicon grown in silicon nitride ambient
[NASA-CASE-ERC-10073-1] c 24 N74-19769

Method of neutralizing the corrosive surface of amine-cured epoxy resins
[NASA-CASE-GSC-12686-1] c 27 N83-34039

SURFACE PROPERTIES

Pretreatment method for anti-wettable materials
[NASA-CASE-XMS-03537] c 15 N69-21471

Ablation article and method
[NASA-CASE-LAR-10439-1] c 33 N73-27796

Dual measurement ablation sensor
[NASA-CASE-LAR-10105-1] c 34 N74-15652

Apparatus for scanning the surface of a cylindrical body
[NASA-CASE-NPO-11861-1] c 36 N74-20009

Apparatus for microbiological sampling — including automatic swabbing
[NASA-CASE-LAR-11069-1] c 35 N75-12272

Penetrometer — for determining load bearing characteristics of inclined surfaces
[NASA-CASE-NPO-11103-1] c 35 N77-27367

Device for measuring the contour of a surface
[NASA-CASE-LAR-11869-1] c 74 N78-27904

Displacement probes with self-contained exciting medium
[NASA-CASE-LAR-11690-1] c 35 N80-14371

Apparatus for electrolytically tapered or contoured cavities
[NASA-CASE-XNP-08835-1] c 37 N80-14395

Mechanical bonding of metal method
[NASA-CASE-LEW-12941-1] c 26 N83-10170

Apparatus and method for inspecting a bearing ball — eddy current inspection technique
[NASA-CASE-MFS-25833-1] c 35 N83-21316

SURFACE REACTIONS

Nondestructive spot test method for magnesium and magnesium alloys
[NASA-CASE-LAR-10953-1] c 17 N73-27446

SURFACE ROUGHNESS

Surface roughness detector Patent
[NASA-CASE-XLA-00203] c 14 N70-34161

Optical inspection apparatus Patent
[NASA-CASE-XMF-00462] c 14 N70-34298

SUBJECT INDEX

Contour surveying system Patent
[NASA-CASE-XLA-08646] c 14 N71-17586

Surface roughness measuring system --- synthetic aperture radar measurements of ocean wave height and terrain peaks
[NASA-CASE-NPO-13862-1] c 35 N79-10391

Ion beam textured graphite electrode plates --- high efficiency electron tube devices
[NASA-CASE-LEW-12919-2] c 24 N82-26386

Texturing polymer surfaces by transfer casting --- cardiovascular prosthesis
[NASA-CASE-LEW-13120-1] c 27 N82-28440

Ion sputter textured graphite --- anode collector plates in electron tube devices
[NASA-CASE-LEW-12919-1] c 24 N83-10117

Damping seal for turbomachinery
[NASA-CASE-MFS-25842-1] c 37 N83-26080

SURFACE ROUGHNESS EFFECTS
Meteorological balloon Patent
[NASA-CASE-NPO-04163] c 02 N71-23007

SURFACE TEMPERATURE
Curved film cooling admission tube
[NASA-CASE-LEW-13174-1] c 34 N83-27144

SURFACE VEHICLES
Optimal control system for an electric motor driven vehicle
[NASA-CASE-NPO-11210] c 11 N72-20244

Vehicle for use in planetary exploration
[NASA-CASE-NPO-11366] c 11 N73-26238

Short range laser obstacle detector --- for surface vehicles using laser diode array
[NASA-CASE-NPO-11856-1] c 36 N74-15145

Vehicle locating system utilizing AM broadcasting station carriers
[NASA-CASE-NPO-13217-1] c 32 N75-26194

Vehicular impact absorption system
[NASA-CASE-NPO-14014-1] c 37 N79-10420

Phase sensitive guidance sensor for wire-following vehicles
[NASA-CASE-NPO-15341-1] c 33 N82-12346

SURFACE WAVES
Antenna design for surface wave suppression Patent
[NASA-CASE-XLA-10772] c 07 N71-28980

SURFACES
Recoverable rocket vehicle Patent
[NASA-CASE-XMF-00389] c 31 N70-34176

Friction measuring apparatus Patent
[NASA-CASE-NPO-08680] c 14 N71-22995

Three-axis adjustable loading structure
[NASA-CASE-FRC-10051-1] c 35 N74-13129

Photoelectron spectrometer with means for stabilizing sample surface potential
[NASA-CASE-NPO-13772-1] c 35 N78-10429

SURFACTANTS
Surfactant-assisted liquefaction of particulate carbonaceous substances
[NASA-CASE-NPO-13904-1] c 25 N79-11152

SURGERY
Tissue macerating instrument
[NASA-CASE-LEW-12668-1] c 52 N78-14773

Intra-ocular pressure normalization technique and equipment
[NASA-CASE-LEW-12955-1] c 52 N80-14684

Low X-ray absorption aneurism clips
[NASA-CASE-LAR-12650-2] c 52 N84-15764

SURGES
Transient-compensated SCR inverter
[NASA-CASE-XLA-08507] c 09 N69-39984

Turn on transient limiter Patent
[NASA-CASE-GSC-10413] c 10 N71-26531

SURGICAL INSTRUMENTS
Ophthalmic method and apparatus
[NASA-CASE-LEW-11669-1] c 05 N73-27062

Ophthalmic liquefaction pump
[NASA-CASE-LEW-12051-1] c 52 N75-33640

SURVIVAL EQUIPMENT
Survival couch Patent
[NASA-CASE-XLA-00118] c 05 N70-33285

Life preserver Patent
[NASA-CASE-XMS-00864] c 05 N70-36493

Soft frame adjustable eyeglasses Patent
[NASA-CASE-XMS-06064] c 05 N71-23096

SUSPENDING (HANGING)
Parallel motion suspension device Patent
[NASA-CASE-XNP-01567] c 15 N70-41310

Reduced gravity simulator Patent
[NASA-CASE-XLA-01787] c 11 N71-16028

Suspended mass impact damper Patent
[NASA-CASE-LAR-10193-1] c 15 N71-27146

SUSPENSION SYSTEMS (VEHICLES)
Suspension system for a wheel rolling on a flat track --- bearings for directional antennas
[NASA-CASE-NPO-14395-1] c 37 N82-21587

SWEAT
Sweat collection capsule
[NASA-CASE-ARC-11031-1] c 52 N81-29763

SWEAT COOLING

Transpiration cooled turbine blade manufactured from wires Patent
[NASA-CASE-XLE-00020] c 15 N70-33226

Transpirationally cooled heat ablation system Patent
[NASA-CASE-XMS-02677] c 31 N70-42075

Method of electroforming a rocket chamber
[NASA-CASE-LEW-11118-1] c 20 N74-32919

SWEEP CIRCUITS

Multiple slope sweep generator Patent
[NASA-CASE-XMS-03542] c 09 N71-28926

SWEEP EFFECT

High speed flight vehicle control Patent
[NASA-CASE-XLA-08967] c 02 N71-27088

Acoustically swept rotor --- helicopter noise reduction
[NASA-CASE-ARC-11106-1] c 05 N80-14107

SWEEP FREQUENCY

Swept group delay measurement
[NASA-CASE-NPO-13909-1] c 33 N78-25319

SWELLING

Intumescent composition, foamed product prepared therewith, and process for making same
[NASA-CASE-ARC-10304-1] c 18 N73-26572

SWEPT WINGS

Supersonic aircraft Patent
[NASA-CASE-XLA-04451] c 02 N71-12243

Leading edge vortex flaps for drag reduction --- during subsonic flight
[NASA-CASE-LAR-12750-1] c 02 N81-19016

SWIRLING

Slosh alleviator Patent
[NASA-CASE-XLA-05749] c 15 N71-19569

Swirl can primary combustor
[NASA-CASE-LEW-11326-1] c 23 N73-30665

SWITCHES

Switching mechanism with energy storage means Patent
[NASA-CASE-XGS-00473] c 03 N70-38713

Digital memory in which the driving of each word location is controlled by a switch core Patent
[NASA-CASE-XNP-01466] c 10 N71-26434

RF controlled solid state switch
[NASA-CASE-ARC-10136-1] c 09 N72-22202

High power RF coaxial switch
[NASA-CASE-NPO-14229-1] c 33 N80-18285

Automatic thermal switch
[NASA-CASE-GSC-12415-1] c 33 N82-24419

Fiber optic crossbar switch for automatically patching optical signals
[NASA-CASE-KSC-11104-1] c 74 N83-29032

Triac failure detector
[NASA-CASE-MFS-25607-1] c 33 N83-34190

Heat pipe thermal switch
[NASA-CASE-GSC-12812-1] c 34 N83-35307

SWITCHING

Phase detector for three-phase power factor controller
[NASA-CASE-MFS-25854-1] c 33 N83-17804

SWITCHING CIRCUITS

Solid state switch
[NASA-CASE-XNP-09228] c 09 N69-27500

Power control circuit
[NASA-CASE-XNP-02713] c 10 N69-39888

A method for selective gold diffusion of monolithic silicon devices and/or circuits Patent application
[NASA-CASE-ERC-10072] c 09 N70-11148

Space vehicle electrical system Patent
[NASA-CASE-XMF-00517] c 03 N70-34157

High speed low level electrical stepping switch Patent
[NASA-CASE-XAC-00060] c 09 N70-39915

Switching circuit employing regeneratively connected complementary transistors Patent
[NASA-CASE-XNP-02654] c 10 N70-42032

Electronic beam switching commutator Patent
[NASA-CASE-XGS-01451] c 09 N71-10677

Electronic amplifier with power supply switching Patent
[NASA-CASE-XMS-00945] c 09 N71-10798

SCR blocking pulse gate amplifier Patent
[NASA-CASE-XLA-07497] c 09 N71-12514

Magnetic core current steering commutator Patent
[NASA-CASE-NPO-10201] c 08 N71-18694

A dc-coupled noninverting one-shot Patent
[NASA-CASE-XNP-09450] c 10 N71-18723

Reversible current control apparatus Patent
[NASA-CASE-XLA-09371] c 10 N71-18724

Exclusive-Or digital logic module Patent
[NASA-CASE-XLA-07732] c 08 N71-18751

Polarization diversity monopulse tracking receiver Patent
[NASA-CASE-XGS-03501] c 09 N71-20864

Sight switch using an infrared source and sensor Patent
[NASA-CASE-XMF-03934] c 09 N71-22985

Complementary regenerative switch Patent
[NASA-CASE-XGS-02751] c 09 N71-23015

SWITCHING CIRCUITS

Drive circuit utilizing two cores Patent
[NASA-CASE-XNP-01318] c 10 N71-23033

Pulse modulator providing fast rise and fall times Patent
[NASA-CASE-XMS-04919] c 09 N71-23270

Polarity sensitive circuit Patent
[NASA-CASE-XNP-00952] c 10 N71-23271

Increasing efficiency of switching type regulator circuits Patent
[NASA-CASE-XMS-09352] c 09 N71-23316

Indexing microwave switch Patent
[NASA-CASE-XNP-06507] c 09 N71-23548

Multialarm summary alarm Patent
[NASA-CASE-XLE-03061-1] c 10 N71-24798

Switching circuit Patent
[NASA-CASE-XNP-06505] c 10 N71-24799

Inverter with means for base current shaping for sweeping charge carriers from base region Patent
[NASA-CASE-XGS-06226] c 10 N71-25950

Current steering switch Patent
[NASA-CASE-XNP-08567] c 09 N71-26000

Control apparatus for applying pulses of selectively predetermined duration to a sequence of loads Patent
[NASA-CASE-XGS-04224] c 10 N71-26418

Turn on transient limiter Patent
[NASA-CASE-GSC-10413] c 10 N71-26531

Method and means for providing an absolute power measurement capability Patent
[NASA-CASE-ERC-11020] c 14 N71-26774

Transistor drive regulator Patent
[NASA-CASE-LEW-10233] c 10 N71-27126

Compensating bandwidth switching transients in an amplifier circuit Patent
[NASA-CASE-XNP-01107] c 10 N71-28859

Monostable multivibrator with complementary NOR gates Patent
[NASA-CASE-MSC-13492-1] c 10 N71-28860

Digital memory sense amplifying means Patent
[NASA-CASE-XNP-01012] c 08 N71-28925

Current regulating voltage divider
[NASA-CASE-MFS-20935] c 09 N71-34212

Reference voltage switching unit
[NASA-CASE-NPO-11253] c 09 N72-17157

Optimum performance spacecraft solar cell system
[NASA-CASE-GSC-10669-1] c 03 N72-20031

Flow rate switch
[NASA-CASE-NPO-10722] c 09 N72-20199

Switching regulator
[NASA-CASE-LEW-11005-1] c 09 N72-21243

Data multiplexer using tree switching configuration
[NASA-CASE-NPO-11333] c 08 N72-22162

Pulse coupling circuit
[NASA-CASE-LEW-10433-1] c 09 N72-22197

Solid state remote circuit selector switch
[NASA-CASE-LEW-10387] c 09 N72-22201

Pressure operated electrical switch responsive to a pressure decrease after a pressure increase
[NASA-CASE-LAR-10137-1] c 09 N72-22204

Fast response low power drain logic circuits
[NASA-CASE-GSC-10878-1] c 10 N72-22236

CRT blanking and brightness control circuit
[NASA-CASE-KSC-10647-1] c 10 N72-31273

Electronic video editor
[NASA-CASE-KSC-10003] c 10 N73-13235

Radiation sensitive solid state switch
[NASA-CASE-NPO-10817-1] c 08 N73-30135

Transparent switchboard
[NASA-CASE-MSC-13746-1] c 10 N73-32143

High isolation RF signal selection switches
[NASA-CASE-NPO-13081-1] c 33 N74-22814

Isolated output system for a class D switching-mode amplifier
[NASA-CASE-MFS-21618-1] c 33 N75-30429

Dual digital video switcher
[NASA-CASE-KSC-10782-1] c 33 N75-30431

Multi-computer multiple data path hardware exchange system
[NASA-CASE-NPO-13422-1] c 60 N76-14818

Sustained arc ignition system
[NASA-CASE-LEW-12444-1] c 33 N77-28385

Window comparator
[NASA-CASE-FRC-10090-1] c 33 N78-18308

Module failure isolation circuit for paralleled inverters --- preventing system failure during power conditioning for spacecraft applications
[NASA-CASE-NPO-14000-1] c 33 N79-24254

System for automatically switching transformer coupled lines
[NASA-CASE-MSC-16697-1] c 33 N79-28415

Self-reconfiguring solar cell system
[NASA-CASE-LEW-12586-1] c 44 N80-14472

Push-pull converter with energy saving circuit for protecting switching transistors from peak power stress
[NASA-CASE-NPO-14316-1] c 33 N81-33404

Microwave switching power divider --- antenna feeds
[NASA-CASE-GSC-12420-1] c 33 N82-16340

SWITCHING THEORY

- Control means for a solid state crossbar switch
[NASA-CASE-NPO-15066-1] c 33 N82-29538
Three phase power factor controller with induced EMF sensing
[NASA-CASE-MFS-25852-1] c 33 N83-17803
Active lamp pulse driver circuit — optical pumping of laser media
[NASA-CASE-GSC-12566-1] c 33 N83-34189
Pulsed thyristor trigger control circuit
[NASA-CASE-MFS-25616-1] c 33 N84-16455

SWITCHING THEORY

- Multiple circuit switch apparatus with improved pivot actuator structure Patent
[NASA-CASE-XAC-03777] c 10 N71-15909

SWIVELS

- Swivel support for gas bearings Patent
[NASA-CASE-XMF-07808] c 15 N71-23812

SYNCHRONISM

- Time division multiplex system
[NASA-CASE-XGS-05918] c 07 N69-39974
Means for generating a sync signal in an FM communication system Patent
[NASA-CASE-XNP-10830] c 07 N71-11281
Method of resolving clock synchronization error and means therefor Patent
[NASA-CASE-XNP-08875] c 10 N71-23099
Passive synchronized spike generator with high input impedance and low output impedance and capacitor power supply Patent
[NASA-CASE-XGS-03632] c 09 N71-23311
Time synchronization system utilizing moon reflected coded signals Patent
[NASA-CASE-NPO-10143] c 10 N71-26326
Rapid sync acquisition system Patent
[NASA-CASE-NPO-10214] c 10 N71-26577
Synchronized voltage contrast display analysis system
[NASA-CASE-NPO-14567-1] c 33 N83-18996

SYNCHRONIZED OSCILLATORS

- Phase demodulation system with two phase locked loops Patent
[NASA-CASE-XNP-00777] c 10 N71-19469
Phase locked phase modulator including a voltage controlled oscillator Patent
[NASA-CASE-XNP-05382] c 10 N71-23544
Automatic frequency control loop including synchronous switching circuits
[NASA-CASE-KSC-10393] c 09 N72-21247
Apparatus and method for tracking the fundamental frequency of an analog input signal
[NASA-CASE-ARC-11367-1] c 33 N83-21238

SYNCHRONIZERS

- Burst synchronization detection system Patent
[NASA-CASE-XMS-05605-1] c 10 N71-19468
Time division radio relay synchronizing system using different sync code words for in-sync and out of sync conditions Patent
[NASA-CASE-GSC-10373-1] c 07 N71-19773
Synchronous servo loop control system Patent
[NASA-CASE-XNP-03744] c 10 N71-20448
Digital synchronizer Patent
[NASA-CASE-NPO-10851] c 07 N71-24613
Video sync processor Patent
[NASA-CASE-KSC-10002] c 10 N71-25865
Pulse code modulated signal synchronizer
[NASA-CASE-MSC-12462-1] c 32 N74-20809
Pulse code modulated signal synchronizer
[NASA-CASE-MSC-12494-1] c 32 N74-20810
System for generating timing and control signals
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Variable frequency oscillator with temperature compensation Patent
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Device for suppressing sound and heat produced by high-velocity exhaust jets Patent
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Solar cell including second surface mirrors Patent
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[NASA-CASE-XLA-01926] c 14 N71-15620

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Method and apparatus for controllably heating fluid Patent
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Thermal control panel Patent
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Temperature regulation circuit Patent
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- THERMOSETTING RESINS**
Method for molding compounds Patent
[NASA-CASE-XLA-01091] c 15 N71-10672
- Method and apparatus for bonding a plastics sleeve onto a metallic body Patent
[NASA-CASE-XLA-01262] c 15 N71-21404
- Honeycomb panel and method of making same Patent
[NASA-CASE-XMF-01402] c 18 N71-21651
- Method of forming shapes from planar sheets of thermosetting materials
[NASA-CASE-NPO-11036] c 15 N72-24522
- Highly fluorinated polyurethanes
[NASA-CASE-NPO-10767-2] c 06 N72-27151
- Evacuated displacement compression molding
[NASA-CASE-LAR-10782-1] c 31 N74-14133
- Method for compression molding of thermosetting plastics utilizing a temperature gradient across the plastic to cure the article
[NASA-CASE-LAR-10489-1] c 31 N74-18124
- Evacuated, displacement compression mold — of tubular bodies from thermosetting plastics
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- Cork-resin ablative insulation for complex surfaces and method for applying the same
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- Thermoset-thermoplastic aromatic polyamides
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- Polymeric compositions and their method of manufacture — forming filled polymer systems using cryogenics
[NASA-CASE-NPO-10424-1] c 27 N81-24258
- Elastomer toughened polyimide adhesives
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- THERMOSTATS**
Thermal switch Patent
[NASA-CASE-XNP-00463] c 33 N70-36847
- Thermostatic actuator
[NASA-CASE-NPO-10637] c 15 N72-12409
- Thermostatically controlled non-tracking type solar energy concentrator
[NASA-CASE-NPO-13497-1] c 44 N76-14602
- THICK FILMS**
Screened circuit capacitors
[NASA-CASE-LAR-10294-1] c 26 N72-28762
- THICKNESS**
Myocardium wall thickness transducer and measuring method
[NASA-CASE-NPO-13644-1] c 52 N76-29895
- Thickness measurement system
[NASA-CASE-MFS-23721-1] c 31 N79-28370
- Strong thin membrane structure — solar sails
[NASA-CASE-NPO-14021-2] c 27 N80-16163
- THIN FILMS**
Temperature sensitive capacitor device
[NASA-CASE-XNP-09750] c 14 N69-39937
- Means and methods of depositing thin films on substrates Patent
[NASA-CASE-XNP-00595] c 15 N70-34967
- Method of forming thin window drifted silicon charged particle detector Patent
[NASA-CASE-XLE-00808] c 24 N71-10560
- Vacuum deposition apparatus Patent
[NASA-CASE-XMF-01667] c 15 N71-17647
- GaAs solar detector using manganese as a doping agent Patent
[NASA-CASE-XNP-01328] c 26 N71-18064
- Stable amplifier having a stable quiescent point Patent
[NASA-CASE-XGS-02812] c 09 N71-19466
- Evaporant source for vapor deposition Patent
[NASA-CASE-XMF-06065] c 15 N71-20395
- Method of electrolytically binding a layer of semiconductors together Patent
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- Vacuum evaporator with electromagnetic ion steering Patent
[NASA-CASE-NPO-10331] c 09 N71-26701
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[NASA-CASE-GSC-10097-1] c 08 N71-27210
- Thin film capacitive bolometer and temperature sensor Patent
[NASA-CASE-NPO-10607] c 09 N71-27232
- Microelectronic module package Patent
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- Fabrication of single crystal film semiconductor devices
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- Active microwave irises and windows
[NASA-CASE-LAR-10513-1] c 07 N72-25170
- Light regulator
[NASA-CASE-LAR-10836-1] c 26 N72-27784
- Thin film microwave iris
[NASA-CASE-LAR-10511-1] c 09 N72-29172
- Method of forming transparent films of ZnO
[NASA-CASE-FRC-10019] c 15 N73-12487
- Light intensity strain analysis
[NASA-CASE-LAR-10765-1] c 32 N73-20740
- Monitoring deposition of films
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- Holographic thin film analyzer
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- Transparent switchboard
[NASA-CASE-MSC-13746-1] c 10 N73-32143
- Method for determining thermo-physical properties of specimens — photographic recording of changes in thin film phase-change temperature indicating material in wind tunnel
[NASA-CASE-LAR-11053-1] c 25 N74-18551

- Method of preparing water purification membranes — polymerization of allyl amine as thin films in plasma discharge
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- System for depositing thin films
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- Method of producing a storage bulb for an atomic hydrogen maser
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- Integrated structure vacuum tube
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- Method of forming metal hydride films
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- Strong thin membrane structure — solar sails
[NASA-CASE-NPO-14021-2] c 27 N80-16163
- Method of forming dynamic membrane on stainless steel support
[NASA-CASE-MSC-18172-1] c 26 N80-19237
- Partial interlaminar separation system for composites
[NASA-CASE-LAR-12065-1] c 24 N81-14000
- Epitaxial thinning process
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- Thin film strain transducer — for strain monitoring of high altitude balloons
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- Integrating IR detector imaging systems
[NASA-CASE-NPO-15805-1] c 74 N83-20757
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- THIN PLATES**
- Dichroic plate — as bandpass filters
[NASA-CASE-NPO-13506-1] c 35 N76-15435
- Adjustable securing base
[NASA-CASE-MSC-19666-1] c 37 N78-17383
- THIN WALLED SHELLS**
- Thin-walled pressure vessel Patent
[NASA-CASE-XLE-04677] c 15 N71-10577
- THIN WALLS**
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- Sealed separable connection Patent
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- Low mass truss structure
[NASA-CASE-LAR-10546-1] c 11 N72-25287
- Differential pressure control
[NASA-CASE-MFS-14216] c 14 N73-13418
- Method of fabricating an article with cavities — with thin bottom walls
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- Nuclear thermionic converter — tungsten-thorium oxide rods
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- THREE DIMENSIONAL MOTION**
- Solid state controller three axes controller
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- THRESHOLD GATES**
- Method and apparatus for data compression by a decreasing slope threshold test
[NASA-CASE-NPO-10769] c 08 N72-11171
- Radiation hardening of MOS devices by boron — for stabilizing gate threshold potential
[NASA-CASE-GSC-11425-2] c 76 N75-25730
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- SCR blocking pulse gate amplifier Patent
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- Method of making a rocket nozzle
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- THRUST AUGMENTATION**
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[NASA-CASE-XLA-00154] c 28 N70-33374
- Construction and method of arranging a plurality of ion engines to form a cluster Patent
[NASA-CASE-XNP-02923] c 28 N71-23081
- Reversed cowl flap inlet thrust augmentor — with adjustable airfoil
[NASA-CASE-ARC-10754-1] c 07 N75-24736
- Method and apparatus for rapid thrust increases in a turbofan engine
[NASA-CASE-LEW-12971-1] c 07 N80-18039
- Thrust augmented spin recovery device
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- THRUST BEARINGS**
- Thrust bearing
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- THRUST CHAMBER PRESSURE**
- Pitch attitude stabilization system utilizing engine pressure ratio feedback signals
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- THRUST CHAMBERS**
- Rocket chamber leak test fixture
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- Supporting and protecting device Patent
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- Rocket thrust chamber Patent
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- Method of making a rocket motor casing Patent
[NASA-CASE-XLE-00409] c 28 N71-15658
- Rocket motor casing Patent
[NASA-CASE-XLE-05689] c 28 N71-15659
- Rocket engine injector Patent
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- Injection head for delivering liquid fuel and oxidizers
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- Fluidic proportional thruster system
[NASA-CASE-ARC-10106-1] c 28 N72-22769
- Ion thruster
[NASA-CASE-LEW-10770-1] c 28 N72-22770
- Thermal flux transfer system
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- Heat exchanger — rocket combustion chambers and cooling systems
[NASA-CASE-LEW-12252-1] c 34 N79-13288
- Heat exchanger and method of making — bonding rocket chambers with a porous metal matrix
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- THRUST CONTROL**
- Electromechanical actuator
[NASA-CASE-XNP-05975] c 15 N69-23185
- Apparatus and method for control of a solid fueled rocket vehicle Patent
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- Thrust and direction control apparatus Patent
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- Continuous detonation reaction engine Patent
[NASA-CASE-XMF-06926] c 28 N71-22983
- High efficiency ionizer assembly Patent
[NASA-CASE-XNP-01854] c 28 N71-28850
- Heated porous plug microthruster
[NASA-CASE-GSC-10640-1] c 28 N72-18766
- Multi-purpose wind tunnel reaction control model block
[NASA-CASE-MSC-19706-1] c 09 N78-31129
- Fluid thrust control system — for liquid propellant rocket engines
[NASA-CASE-XMF-05964-1] c 20 N79-21124
- THRUST LOADS**
- Thrust measurement
[NASA-CASE-XMS-05731] c 35 N75-29382
- THRUST MEASUREMENT**
- Thrust dynamometer Patent
[NASA-CASE-XLE-00702] c 14 N70-40203
- Thrust dynamometer Patent
[NASA-CASE-XLE-05260] c 14 N71-20429
- Precision thrust gage Patent
[NASA-CASE-XGS-02319] c 14 N71-22965
- Micro-pound extended range thrust stand Patent
[NASA-CASE-GSC-10710-1] c 28 N71-27094
- THRUST REVERSAL**
- Thrust reverser for a long duct fan engine — for turbofan engines
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- THRUST VECTOR CONTROL**
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- Velocity package Patent
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- Ion beam deflector Patent
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- Tertiary flow injection thrust vectoring system Patent
[NASA-CASE-MFS-20831] c 28 N71-29153
- Flight control system
[NASA-CASE-MSC-13397-1] c 21 N72-25595
- Rocket thrust throttling system
[NASA-CASE-LEW-10374-1] c 28 N73-13773
- System for imposing directional stability on a rocket-propelled vehicle
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- THRUST-WEIGHT RATIO**
- Missile launch release system Patent
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- Electrical power generating system — for windpowered generation
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- Three phase power factor controller with induced EMF sensing
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- Phase detector for three-phase power factor controller
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- Coupling an induction motor type generator to a-c power lines
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- Pulsed thyristor trigger control circuit
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- TILES**
- Strain arrestor plate for fused silica tile — bonding of thermal insulation to metallic plates or structural parts
[NASA-CASE-MSC-14182-1] c 27 N76-14264
- Diced tile thermal protection for spacecraft
[NASA-CASE-MSC-16366-1] c 24 N79-23142
- High temperature emittance coatings and coating compositions — repairing damaged space shuttle tiles in space
[NASA-CASE-MSC-18851-1] c 27 N82-26460
- Attachment system for silica tiles — thermal protection for space shuttle orbiter
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- Mechanical fastener
[NASA-CASE-LAR-12738-1] c 18 N82-33419
- Method for repair of thin glass coatings — on space shuttle orbiter tiles
[NASA-CASE-KSC-11097-1] c 27 N82-33520
- Densification of porous refractory substrates — space shuttle orbiter tiles
[NASA-CASE-MSC-18737-1] c 24 N83-13171
- Method of repairing surface damage to porous refractory substrates — space shuttle orbiter tiles
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- Shell tile thermal protection system
[NASA-CASE-LAR-12862-1] c 24 N83-17602
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[NASA-CASE-MSC-18791-1] c 37 N83-36482
- Mechanical fastener
[NASA-CASE-LAR-12738-2] c 18 N84-15180
- Hot melt recharge system — space maintenance
[NASA-CASE-LAR-12881-2] c 27 N84-15271
- TILT WING AIRCRAFT**
- Free wing assembly for an aircraft
[NASA-CASE-FRC-10092-1] c 05 N79-12061
- TIME CONSTANT**
- Variable time constant smoothing circuit Patent
[NASA-CASE-XGS-01983] c 10 N70-41964
- TIME DEPENDENCE**
- Instrument for determining coincidence and elapse time between independent sources of random sequential events
[NASA-CASE-LAR-12531-1] c 35 N83-29651
- TIME DISCRIMINATION**
- Ultra-long monostable multivibrator employing bistable semiconductor switch to allow charging of timing circuit Patent
[NASA-CASE-XGS-00381] c 09 N70-34819
- TIME DIVISION MULTIPLE ACCESS**
- Method for terminal position determination in Earth terminal-to-satellite burst acquisition and synchronization
[NASA-CASE-LEW-13893-1] c 32 N83-30832
- TIME DIVISION MULTIPLEXING**
- Time division multiplex system
[NASA-CASE-XGS-05918] c 07 N69-39974
- Time-division multiplexer Patent
[NASA-CASE-XNP-00431] c 09 N70-38998
- Data processor having multiple sections activated at different times by selective power coupling to the sections Patent
[NASA-CASE-XGS-04767] c 08 N71-12494
- Data compression system with a minimum time delay unit Patent
[NASA-CASE-XNP-08832] c 08 N71-12506
- Time division radio relay synchronizing system using different sync code words for in sync and out of sync conditions Patent
[NASA-CASE-GSC-10373-1] c 07 N71-19773
- Signal processing apparatus for multiplex transmission Patent
[NASA-CASE-NPO-10388] c 07 N71-24622
- Programmable telemetry system Patent
[NASA-CASE-GSC-10131-1] c 07 N71-24624
- High dynamic global positioning system receiver
[NASA-CASE-NPO-18171-1-CU] c 04 N84-12151
- TIME FUNCTIONS**
- Single or joint amplitude distribution analyzer Patent
[NASA-CASE-XNP-01383] c 09 N71-10659
- TIME LAG**
- Closed loop ranging system Patent
[NASA-CASE-XNP-01501] c 21 N70-41930

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[NASA-CASE-XNP-08832] c 08 N71-12506
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[NASA-CASE-NPO-11203] c 10 N72-20224
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[NASA-CASE-GSC-12075-1] c 32 N77-31350
Time delay and integration detectors using charge transfer devices
[NASA-CASE-GSC-12324-1] c 33 N81-33403

TIME MEASUREMENT

Time domain phase measuring apparatus
[NASA-CASE-GSC-12228-1] c 33 N79-10338

TIME MEASURING INSTRUMENTS

Measurement of time differences between luminous events Patent
[NASA-CASE-XLA-01987] c 23 N71-23976
Error correction method and apparatus for electronic timepieces
[NASA-CASE-LAR-12654-1] c 33 N83-36357

TIME OF FLIGHT SPECTROMETERS

Time of flight mass spectrometer with feedback means from the detector to the low source and a specific counter Patent
[NASA-CASE-XNP-01056] c 14 N71-23041

TIME SERIES ANALYSIS

Apparatus for statistical time-series analysis of electrical signals
[NASA-CASE-MSC-12428-1] c 10 N73-25240

TIME SHARING

Integrated time shared instrumentation display Patent
[NASA-CASE-XLA-01952] c 08 N71-12507

TIME SIGNALS

System for monitoring signal amplitude ranges
[NASA-CASE-XMS-04061-1] c 09 N69-39885
Method of resolving clock synchronization error and means therefor Patent
[NASA-CASE-XNP-08875] c 10 N71-23099
Time synchronization system utilizing moon reflected coded signals Patent
[NASA-CASE-NPO-10143] c 10 N71-26326
Counter Patent
[NASA-CASE-XNP-06234] c 10 N71-27137
System for generating timing and control signals
[NASA-CASE-NPO-13125-1] c 33 N75-19519
Precise RF timing signal distribution to remote stations — fiber optics
[NASA-CASE-NPO-14749-1] c 32 N81-14186

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Synchronous servo loop control system Patent
[NASA-CASE-XNP-03744] c 10 N71-20448
Method of resolving clock synchronization error and means therefor Patent
[NASA-CASE-XNP-08875] c 10 N71-23099
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High speed photo-optical time recording
[NASA-CASE-KSC-10294] c 14 N72-18411
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[NASA-CASE-MFS-25862] c 33 N83-28329

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Thin wire pointing method
[NASA-CASE-NPO-15789-1] c 31 N83-19947

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Excessive temperature warning system Patent
[NASA-CASE-XLA-01926] c 14 N71-15620
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Servo-controlled intravital microscope system
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Method and system for in vivo measurement of bone tissue using a two level energy source
[NASA-CASE-MSC-14276-1] c 52 N77-14737
System for and method of freezing biological tissue
[NASA-CASE-GSC-12173-1] c 51 N79-10694
Coupling apparatus for ultrasonic medical diagnostic system
[NASA-CASE-NPO-13935-1] c 52 N79-14751
Apparatus and method of inserting a microelectrode in body tissue or the like using vibration means
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Multifunctional transducer
[NASA-CASE-NPO-14329-1] c 52 N81-20703
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[NASA-CASE-NPO-15213-1] c 51 N83-17045
Method for thermal monitoring subcutaneous tissue
[NASA-CASE-LAR-13028-1] c 52 N84-21053

TITANATES

Synthesis of zinc titanate pigment and coatings containing the same
[NASA-CASE-MFS-13532] c 18 N72-17532

TITANIUM

Method of joining aluminum to stainless steel Patent
[NASA-CASE-MFS-07369] c 15 N71-20443
Weld-bonded titanium structures
[NASA-CASE-LAR-11549-1] c 37 N77-11397
Method of mitigating titanium impurities effects in p-type silicon material for solar cells
[NASA-CASE-NPO-14635-1] c 44 N80-24741
High performance filletting sealant
[NASA-CASE-ARC-11409-1] c 27 N82-32490

TITANIUM ALLOYS

Method of inhibiting stress corrosion cracks in titanium alloys Patent
[NASA-CASE-NPO-10271] c 17 N71-16393
Nondestructive spot test method for titanium and titanium alloys
[NASA-CASE-LAR-10539-1] c 17 N73-12547

TITANIUM NITRIDES

Improved refractory coatings — sputtered coatings on substrates that form stable nitrides
[NASA-CASE-LEW-23169-2] c 26 N81-16209

TITANIUM OXIDES

Method of preparing zinc orthotitanate pigment
[NASA-CASE-MFS-23345-1] c 27 N77-30237

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Universal restrainer and joint Patent
[NASA-CASE-XNP-02278] c 15 N71-28951

TOLUENE

Supercritical multicomponent solvent coal extraction
[NASA-CASE-NPO-15767-1] c 23 N84-16255

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[NASA-CASE-NPO-14191-1] c 31 N80-32584
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Tool attachment for spreading loose elements away from work Patent
[NASA-CASE-XMF-02107] c 15 N71-10809
Adjustable attitude guide device Patent
[NASA-CASE-XLA-07911] c 15 N71-15571
Tube dimpling tool Patent
[NASA-CASE-XMS-06876] c 15 N71-21536
Stud-bonding gun
[NASA-CASE-MFS-20299] c 15 N72-11392
Insert facing tool — manually operated cutting tool for forming studs in honeycomb material
[NASA-CASE-MFS-21485-1] c 37 N74-25968
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Tubing and cable cutting tool
[NASA-CASE-LAR-12786-1] c 37 N82-20545
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[NASA-CASE-MSC-20319-1] c 37 N82-31689
Tool for releasing optical elements
[NASA-CASE-GSC-12794-1] c 37 N83-12434
Apparatus for accurately preloading auger attachment means for frangible protective material
[NASA-CASE-MSC-18791-1] c 37 N83-36482

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Process for the preparation of brushite crystals
[NASA-CASE-ERC-10338] c 04 N72-33072

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Method for observing the features characterizing the surface of a land mass
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TORCHES

Apparatus for welding torch angle and seam tracking control Patent
[NASA-CASE-XMF-03287] c 15 N71-15607
Electric welding torch Patent
[NASA-CASE-XMF-02330] c 15 N71-23798
Computerized system for translating a torch head
[NASA-CASE-MFS-23620-1] c 37 N79-10421

TOROIDAL SHELLS

Toroidal cell and battery — storage battery for high amp-hour load applications
[NASA-CASE-LEW-12918-1] c 44 N81-24521

TOROIDS

Flux sensing device using a tubular core with toroidal gating coil and solenoidal output coil wound thereon Patent
[NASA-CASE-XGS-01881] c 09 N70-40123
A brushless dc tachometer
[NASA-CASE-MFS-15706-1] c 35 N82-26633

TORQUE

Bidirectional step torque filter with zero backlash characteristic Patent
[NASA-CASE-XGS-04227] c 15 N71-21744

Isolation coupling arrangement for a torque measuring system
[NASA-CASE-XLA-04897] c 15 N72-22482

High-torque open-end wrench
[NASA-CASE-NPO-13541-1] c 37 N79-14383

Acoustic driving of rotor
[NASA-CASE-NPO-14005-1] c 71 N79-20827

Magnetic field control — electromechanical torquing device
[NASA-CASE-MFS-23828-1] c 33 N82-26569

Directional gear ratio transmission
[NASA-CASE-LAR-12644-1] c 37 N82-29605

Securable bearing stress-strain indicator — for monitoring torque on bolts incorporated in pressure vessels
[NASA-CASE-LAR-12774-1] c 35 N83-29654

Missile rolling tail brake torque system — simulating bearing friction on canard controlled missiles
[NASA-CASE-LAR-12751-1] c 15 N84-16231

TORQUE MOTORS

Low speed phaselock speed control system — for brushless dc motor
[NASA-CASE-GSC-11127-1] c 09 N75-24758

Magnetic bearing and motor
[NASA-CASE-GSC-12726-1] c 37 N83-34323

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Optical torquemeter Patent
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Balance torquemeter Patent
[NASA-CASE-XGS-01013] c 14 N71-23725

Pressure suit joint analyzer
[NASA-CASE-ARC-11314-1] c 54 N82-26987

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Method for measuring cutaneous sensory perception
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Tactile sensing means for prosthetic limbs
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Exposure system for animals Patent
[NASA-CASE-XAC-05333] c 11 N71-22875

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Microbalance including crystal oscillators for measuring contaminants in a gas system Patent
[NASA-CASE-NPO-10144] c 14 N71-17701

Method for removing oxygen impurities from cesium Patent
[NASA-CASE-XNP-04262-2] c 17 N71-26773

Electric discharge for treatment of trace contaminants
[NASA-CASE-ARC-10975-1] c 33 N79-15245

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Automated system for identifying traces of organic chemical compounds in aqueous solutions
[NASA-CASE-NPO-13063-1] c 25 N76-18245

Nulling device for detection of trace gases by NDIR absorption
[NASA-CASE-ARC-10760-1] c 25 N76-22323

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Mount for continuously orienting a collector dish in a system adapted to perform both diurnal and seasonal solar tracking
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Apparatus and method for stabilized phase detection for binary signal tracking loops
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Monopulse system with an electronic scanner
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[NASA-CASE-XNP-02723] c 07 N70-41680
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[NASA-CASE-XMS-09610] c 07 N71-24625
Acquisition and tracking system for optical radar
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Simultaneous acquisition of tracking data from two stations
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Low-drag ground vehicle particularly suited for use in safely transporting livestock
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[NASA-CASE-ARC-11444-1] c 02 N83-25663

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[NASA-CASE-XNP-00708] c 14 N70-35394
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[NASA-CASE-XLA-08646] c 14 N71-17586
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[NASA-CASE-XGS-03304] c 09 N71-22988
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[NASA-CASE-XLA-00781] c 09 N71-22999
Extensometer frame
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Split range transducer
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Magnifying scratch gage force transducer
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Simultaneous muscle force and displacement transducer
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Photomechanical transducer
[NASA-CASE-NPO-14363-1] c 39 N81-25400
Hot foil transducer skin friction sensor
[NASA-CASE-LAR-12321-1] c 35 N82-24470
Thin film strain transducer — for strain monitoring of high altitude balloons
[NASA-CASE-WLP-10055-1] c 35 N82-26632
Strain gage calibration
[NASA-CASE-LAR-12743-1] c 35 N82-32661
Thin film strain transducer — in-flight monitoring of balloon film strain
[US-PATENT-APPL-SN-526770] c 35 N84-12448

TRANSFER FUNCTIONS

Method and apparatus for transfer function simulator for testing complex systems
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Signal multiplexer
[NASA-CASE-XGS-01110] c 07 N69-24334
Insertion loss measuring apparatus having transformer means connected across a pair of bolometers Patent
[NASA-CASE-XNP-01193] c 10 N71-16057
Saturation current protection apparatus for saturable core transformers Patent
[NASA-CASE-ERC-10075] c 09 N71-24800
Unsaturating saturable core transformer Patent
[NASA-CASE-ERC-10125] c 09 N71-24893
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[NASA-CASE-XGS-11177] c 09 N71-27001
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Fail-safe multiple transformer circuit configuration
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Solid-state current transformer
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[NASA-CASE-NPO-14617-1] c 33 N81-24338
Push-pull converter with energy saving circuit for protecting switching transistors from peak power stress
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Non-contacting power transfer device
[NASA-CASE-GSC-12595-1] c 33 N82-24422
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[NASA-CASE-GSC-12817-1] c 33 N83-29590

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[NASA-CASE-NPO-13540-1] c 35 N77-14409
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Deployable solar cell array
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Apparatus for overcurrent protection of a push-pull amplifier Patent
[NASA-CASE-MSC-12033-1] c 09 N71-13531

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Low power drain semi-conductor circuit
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Ring counter
[NASA-CASE-XGS-03095] c 09 N69-27463
Pulse counting circuit which simultaneously indicates the occurrence of the nth pulse Patent
[NASA-CASE-XMF-00906] c 09 N70-41655
Linear sawtooth voltage-wave generator employing transistor timing circuit having capacitor-zener diode combination feedback Patent
[NASA-CASE-XMS-01315] c 09 N70-41675
Switching circuit employing regeneratively connected complementary transistors Patent
[NASA-CASE-XNP-02654] c 10 N70-42032
High voltage transistor circuit Patent
[NASA-CASE-XNP-06937] c 09 N71-19516
Complementary regenerative switch Patent
[NASA-CASE-XGS-02751] c 09 N71-23015
Transistor drive regulator Patent
[NASA-CASE-LEW-10233] c 10 N71-27126
Multiple slope sweep generator Patent
[NASA-CASE-XMS-03542] c 09 N71-28926
Broadband video process with very high input impedance
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Ultra-stable oscillator with complementary transistors
[NASA-CASE-GSC-11513-1] c 33 N74-20862
Inrush current limiter
[NASA-CASE-GSC-11789-1] c 33 N77-14333
Temperature compensated current source
[NASA-CASE-MSC-11235] c 33 N78-17294
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Push-pull converter with energy saving circuit for protecting switching transistors from peak power stress
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Power converter
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[NASA-CASE-XMS-00913] c 10 N71-23543
Switching circuit Patent
[NASA-CASE-XNP-06505] c 10 N71-24799
Cascaded complementary pair broadband transistor amplifiers Patent
[NASA-CASE-NPO-10003] c 10 N71-26415
Fast response low power drain logic circuits
[NASA-CASE-GSC-10878-1] c 10 N72-22238
Coaxial inverted geometry transistor having buried emitter
[NASA-CASE-ARC-10330-1] c 09 N73-32112
Four phase logic systems — including integrated microcircuits
[NASA-CASE-MSC-14240-1] c 33 N75-14957
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Circuit for automatic load sharing in parallel converter modules
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Base drive for paralleled inverter systems
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Ablation article and method
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Process for preparing thermoplastic aromatic polyimides
[NASA-CASE-LAR-11828-1] c 27 N78-32261

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Centrifuge mounted motion simulator Patent
[NASA-CASE-XAC-00398] c 11 N70-34815
Translating horizontal tail Patent
[NASA-CASE-XLA-08801-1] c 02 N71-11043
Semi-linear ball bearing Patent
[NASA-CASE-XLA-02809] c 15 N71-22982
Positioning mechanism
[NASA-CASE-NPO-10679] c 15 N72-21462

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Serial data correlator/code translator
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Microwave power transmission system wherein level of transmitted power is controlled by reflections from receiver
[NASA-CASE-MFS-21470-1] c 44 N74-19870
Linear phase demodulator including a phase locked loop with auxiliary feedback loop
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Validation device for spacecraft checkout equipment Patent
[NASA-CASE-XKS-10543] c 07 N71-26292
Collapsible antenna boom and transmission line Patent
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Phase modulator Patent
[NASA-CASE-MSC-13201-1] c 07 N71-28429
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Phase control circuits using frequency multiplications for phased array antennas
[NASA-CASE-ERC-10285] c 10 N73-16206
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[NASA-CASE-MSC-17832-1] c 33 N74-14956
System for stabilizing cable phase delay utilizing a coaxial cable under pressure
[NASA-CASE-NPO-13138-1] c 33 N74-17927
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Directional gear ratio transmission
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Low X-ray absorption aneurism clips
[NASA-CASE-LAR-12650-2] c 52 N84-15764

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Integrated thermoelectric generator/space antenna combination
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Location identification system
[NASA-CASE-ERC-10324] c 07 N72-25173
Automatic vehicle location system
[NASA-CASE-NPO-11850-1] c 32 N74-12912
Digital communication system
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Temperature telemetric transmitter Patent
[NASA-CASE-NPO-10649] c 07 N71-24840
Two carrier communication system with single transmitter
[NASA-CASE-NPO-11548] c 07 N73-26118
Miniature multichannel biotelemetry system
[NASA-CASE-NPO-13065-1] c 52 N74-26625
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[NASA-CASE-MSC-14558-1] c 32 N75-21486
Apparatus for endoscopic examination — analysis of the propulsion system configuration and transmitter
[NASA-CASE-NPO-14092-1] c 52 N80-16725
A single frequency multitransmitter telemetry system
[NASA-CASE-LAR-13006-1] c 17 N83-20995

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[NASA-CASE-XLA-01488] c 01 N71-23497

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Method of fabricating a photovoltaic module of a substantially transparent construction
[NASA-CASE-NPO-14303-1] c 44 N80-18550

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Rocket chamber and method of making
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Dynamic Doppler simulator Patent
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Method and apparatus for mapping planets
[NASA-CASE-NPO-11001] c 07 N72-21118
Code regenerative clean-up loop transponder for a mu-type ranging system
[NASA-CASE-NPO-11707] c 07 N73-25161
Automatic vehicle location system
[NASA-CASE-NPO-11850-1] c 32 N74-12912
Simultaneous acquisition of tracking data from two stations
[NASA-CASE-NPO-13292-1] c 32 N75-15854
Automatic transponder — measurement of the internal delay time of a transponder
[NASA-CASE-GSC-12075-1] c 32 N77-31350
Video processor for air traffic control beacon system
[NASA-CASE-KSC-11155-1] c 33 N84-15395

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Supporting and protecting device Patent
[NASA-CASE-XMF-00580] c 11 N70-35383

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Rim inertial measuring system
[NASA-CASE-LAR-12052-1] c 18 N81-29152

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Deep trap, laser activated image converting system
[NASA-CASE-NPO-13131-1] c 36 N75-19652

TRAVELING WAVE AMPLIFIERS

Serrodyne frequency converter re-entrant amplifier system Patent
[NASA-CASE-XGS-01022] c 07 N71-16088
Traveling wave solid state amplifier utilizing a semiconductor with negative differential mobility
[NASA-CASE-HQN-10069] c 33 N75-27251
A linearized traveling wave amplifier with hard limiter characteristics
[NASA-CASE-LEW-13981-1] c 33 N83-25984
Resonant isolator for maser amplifier
[NASA-CASE-NPO-15201-1] c 36 N83-35350
Ladder supported ring bar circuit
[NASA-CASE-LEW-13570-1] c 33 N84-16452

TRAVELING WAVE MASERS

Folded traveling wave maser structure Patent
[NASA-CASE-XNP-05219] c 16 N71-15550
High-gain, broadband traveling wave maser Patent
[NASA-CASE-NPO-10548] c 16 N71-24831
Independent gain and bandwidth control of a traveling wave maser
[NASA-CASE-NPO-13801-1] c 36 N78-18410

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Segmented superconducting magnet for a broadband traveling wave maser Patent
[NASA-CASE-XGS-10518] c 16 N71-28554
Traveling wave tube circuit
[NASA-CASE-LEW-12013-1] c 33 N79-10339
Coupled cavity traveling wave tube with velocity tapering
[NASA-CASE-LEW-12296-1] c 33 N80-19425
Multistage depressed collector for dual mode operation — for microwave transmitting tubes
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A linearized traveling wave amplifier with hard limiter characteristics
[NASA-CASE-LEW-13981-1] c 33 N83-25984
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Maser for frequencies in the 7-20 GHz range
[NASA-CASE-NPO-11437] c 16 N72-28521

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Tread drum for animals — having an electrical shock station
[NASA-CASE-ARC-10917-1] c 51 N78-27733

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Ring counter
[NASA-CASE-XGS-03095] c 09 N69-27463
Electric arc driven wind tunnel Patent
[NASA-CASE-XMF-00411] c 11 N70-36913
Automatic, signal range selector for metering devices Patent
[NASA-CASE-XMS-06487] c 14 N71-26244
Multivibrator circuit with means to prevent false triggering from supply voltage fluctuations Patent
[NASA-CASE-ARC-10137-1] c 09 N71-28468
SCR lamp driver
[NASA-CASE-GSC-10221-1] c 09 N72-23171
Rapidly pulsed, high intensity, incoherent light source
[NASA-CASE-XLE-2529-3] c 33 N74-20859
Pulsed thyristor trigger control circuit
[NASA-CASE-MFS-25616-1] c 33 N84-16455

TRIGONOMETRY

Trigonometric vehicle guidance assembly which aligns the three perpendicular axes of two three-axes systems Patent
[NASA-CASE-XMF-00684] c 21 N71-21688

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Trifunctional alcohol
[NASA-CASE-NPO-10714] c 06 N69-31244
Trimerization of aromatic nitriles
[NASA-CASE-LEW-12053-1] c 27 N78-15276
Catalytic trimerization of aromatic nitriles and triaryl-s-triazine ring cross-linked high temperature resistant polymers and copolymers made thereby
[NASA-CASE-LEW-12053-2] c 27 N79-28307

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Triode thermionic energy converter
[NASA-CASE-XLE-01015] c 03 N69-39898

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Method for determining the state of charge of batteries by the use of tracers Patent
[NASA-CASE-XNP-01464] c 03 N71-10728

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CAT altitude avoidance system
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Fifth wheel
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Low-drag ground vehicle particularly suited for use in safely transporting livestock
[NASA-CASE-FRC-11058-1] c 85 N82-33288

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Low mass truss structure
[NASA-CASE-LAR-10546-1] c 11 N72-25287
Lightweight structural columns — space erectable trusses
[NASA-CASE-LAR-12095-1] c 31 N81-25258
Structural members, method and apparatus
[NASA-CASE-MSC-16217-1] c 31 N81-27323
Sequentially deployable maneuverable tetrahedral beam
[NASA-CASE-LAR-13098-1] c 31 N83-35178
Synchronously deployable truss structure
[NASA-CASE-LAR-13117-1] c 18 N84-16250

TUBE GRIDS

Method for fabricating solar cells having integrated collector grids
[NASA-CASE-LEW-12819-2] c 44 N79-18444

TUBE HEAT EXCHANGERS

Electrothermal rockets having improved heat exchangers Patent
[NASA-CASE-XLE-01783] c 28 N70-34175
Procedure and apparatus for determination of water in nitrogen tetroxide
[NASA-CASE-NPO-10234] c 06 N72-17094
Liquid cooled brassiere and method of diagnosing malignant tumors therewith
[NASA-CASE-ARC-11007-1] c 52 N77-14736
Solar energy receiver for a Stirling engine
[NASA-CASE-NPO-14619-1] c 44 N81-17518

TUBES

Method of making tubes Patent
[NASA-CASE-XGS-04175] c 15 N71-18579
Tube sealing device Patent
[NASA-CASE-NPO-10431] c 15 N71-29132

TUMBLING MOTION

Tumbler system to provide random motion
[NASA-CASE-XGS-02437] c 15 N69-21472

TUMORS

Liquid cooled brassiere and method of diagnosing malignant tumors therewith
[NASA-CASE-ARC-11007-1] c 52 N77-14736

TUNABLE LASERS

Spatial energy distribution — scanning a tunable diode laser beam automatically
[NASA-CASE-LAR-12631-1] c 35 N82-18557
Digital control of diode laser for atmospheric spectroscopy
[NASA-CASE-NPO-16000-1] c 36 N83-24842
Portable laser remote system for methane gas detection
[NASA-CASE-NPO-15790-1] c 36 N83-33137

TUNGSTEN

Bonding thermoelectric elements to nonmagnetic refractory metal electrodes
[NASA-CASE-XGS-04554] c 15 N69-39786
Method of producing porous tungsten ionizers for ion rocket engines Patent
[NASA-CASE-XLE-00455] c 28 N70-38197
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[NASA-CASE-XLE-02578] c 25 N71-20747
Fabrication of controlled-porosity metals Patent
[NASA-CASE-XNP-04339] c 17 N71-29137
Tungsten contacts on silicon substrates
[NASA-CASE-GSC-10695-1] c 09 N72-25259

Nuclear thermionic converter --- tungsten-thorium oxide rods
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Evaporant holder
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[NASA-CASE-XMS-00945] c 09 N71-10798
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[NASA-CASE-NPO-11018] c 08 N72-21200
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[NASA-CASE-NPO-14505-1] c 33 N81-19393
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[NASA-CASE-NPO-14316-1] c 33 N81-33404
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[NASA-CASE-LEW-13495-1] c 33 N82-24432
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[NASA-CASE-MSC-13112] c 03 N71-11057
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[NASA-CASE-XAC-05706] c 05 N71-12342
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[NASA-CASE-NPO-11031] c 07 N71-33606
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[NASA-CASE-XMS-09652-1] c 05 N71-26333

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[NASA-CASE-LAR-11845-1] c 02 N77-10001

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[NASA-CASE-LAR-12750-1] c 02 N81-19016
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- Method of making a high voltage V-groove solar cell
[NASA-CASE-LEW-13401-1] c 44 N82-29709
- High voltage planar multijunction solar cell
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- Method for sequentially processing a multi-level interconnect circuit in a vacuum chamber
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- High voltage v-groove solar cell
[NASA-CASE-LEW-13401-2] c 44 N83-32177
- Method of increasing minority carrier lifetime in silicon web or the like
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- Curved film cooling admission tube
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[NASA-CASE-ERC-10125] c 09 N71-24893
- Electrical apparatus for detection of thermal decomposition of insulation Patent
[NASA-CASE-XMF-03968] c 14 N71-27186
- Combustion products generating and metering device
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- Stacked array of omnidirectional antennas
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- Automatic communication signal monitoring system
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[NASA-CASE-LAR-11071-1] c 35 N75-19611
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- Absorbent product and articles made therefrom
[NASA-CASE-MSC-18223-2] c 54 N84-11758

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- Apparatus for improving the fuel efficiency of a gas turbine engine
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[NASA-CASE-GSC-12771-1] c 34 N84-14461

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- Process for purification of waste water produced by a Kraft process pulp and paper mill
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- Method for treating wastewater using microorganisms and vascular aquatic plants
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[NASA-CASE-XNP-05381] c 09 N71-20842
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- Hydrogen rich gas generator
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- Solar hydrogen generator
[NASA-CASE-LAR-11361-1] c 44 N77-22607
- Remote water monitoring system
[NASA-CASE-LAR-11973-1] c 35 N78-27384
- Solar photolysis of water
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- Potable water dispenser
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[NASA-CASE-XLA-01552] c 07 N71-11284
- Self-charging metering and dispensing device for fluids
[NASA-CASE-MSC-20275-1] c 35 N83-17856

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- Vehicle parachute and equipment jettison system Patent
[NASA-CASE-XLA-00195] c 02 N70-38009
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- Water management system and an electrolytic cell therefor Patent
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[NASA-CASE-NPO-13567-1] c 44 N76-29701

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[NASA-CASE-XMS-04533] c 15 N71-23086
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- Method and automated apparatus for detecting coliform organisms
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- Method for detecting coliform organisms
[NASA-CASE-ARC-11322-1] c 51 N83-28849
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- Recovery of potable water from human wastes in below-G conditions Patent
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- Sewage sludge additive
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- Diffraction grating configuration for X-ray and ultraviolet focusing
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[NASA-CASE-FRC-10010] c 10 N71-24862

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High power microwave power divider Patent
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Broadband microwave waveguide window Patent
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[NASA-CASE-XNP-03134] c 07 N71-10676

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[NASA-CASE-NPO-14253-1] c 32 N80-32605

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[NASA-CASE-XLE-00345] c 15 N70-38020

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Liquid-gas separator for zero gravity environment Patent
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Recovery of potable water from human wastes in below-G conditions Patent
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Zero gravity separator Patent
[NASA-CASE-XLE-00586] c 15 N71-15968

Reduced gravity simulator Patent
[NASA-CASE-XLA-01787] c 11 N71-16028

Method and apparatus of simulating zero gravity conditions Patent
[NASA-CASE-MFS-12750] c 27 N71-16223

Quick disconnect latch and handle combination Patent
[NASA-CASE-MFS-11132] c 15 N71-17649

Spherical tank gauge Patent
[NASA-CASE-XMS-06236] c 14 N71-21007

Zero gravity apparatus Patent
[NASA-CASE-XMF-06515] c 14 N71-23227

Skeletal stressing method and apparatus Patent
[NASA-CASE-ARC-10100-1] c 05 N71-24738

Material handling device Patent
[NASA-CASE-XNP-09770-3] c 11 N71-27036

Method of making foamed materials in zero gravity
[NASA-CASE-XMF-09902] c 15 N72-11387

Remote control manipulator for zero gravity environment
[NASA-CASE-MFS-14405] c 15 N72-28495

Zero gravity liquid mixer
[NASA-CASE-LAR-10195-1] c 15 N73-19458

Zero gravity liquid transfer screen
[NASA-CASE-KSC-10626] c 14 N73-27378

Reduced gravity fecal collector seat and urinal
[NASA-CASE-MFS-22102-1] c 54 N74-20725

Apparatus for conducting flow electrophoresis in the substantial absence of gravity
[NASA-CASE-MFS-21394-1] c 34 N74-27744

Rotary plant growth accelerating apparatus --- weightlessness
[NASA-CASE-ARC-10722-1] c 51 N75-25503

Fluid control apparatus and method
[NASA-CASE-LAR-11110-1] c 34 N75-26282

Method for manufacturing mirrors in zero gravity environment
[NASA-CASE-MSC-12611-1] c 12 N76-15189

Fluid mass sensor for a zero gravity environment
[NASA-CASE-MSC-14653-1] c 35 N77-19385

Method of crystallization --- in gravity-free environments
[NASA-CASE-MFS-23001-1] c 76 N77-32919

Passive propellant system
[NASA-CASE-MFS-23642-1] c 20 N80-10278

Method and apparatus for producing concentric hollow spheres --- inertial confinement fusion targets
[NASA-CASE-NPO-14596-1] c 31 N81-33319

WEIGHTLESSNESS SIMULATION

Reduced gravity liquid configuration simulator
[NASA-CASE-XLE-02624] c 12 N69-39988

Mass measuring system Patent
[NASA-CASE-XMS-03371] c 05 N70-42000

Harness assembly Patent
[NASA-CASE-MFS-14671] c 05 N71-12341

Whole body measurement systems --- for weightlessness simulation
[NASA-CASE-MSC-13972-1] c 52 N74-10975

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Grain refinement control in TIG arc welding
[NASA-CASE-MSC-19095-1] c 37 N75-19683

WELD TESTS

Determination of spot weld quality Patent
[NASA-CASE-XNP-02588] c 15 N71-18613

Method and apparatus for swept-frequency impedance measurements of welds
[NASA-CASE-ARC-10176-1] c 15 N72-21464

WELDED JOINTS

Apparatus for welding blades to rotors
[NASA-CASE-LEW-10533-2] c 37 N74-11300

Ultrasonic scanning system for in-place inspection of brazed tube joints
[NASA-CASE-MFS-20767-1] c 38 N74-15130

Device for measuring the ferrite content in an austenitic stainless-steel weld
[NASA-CASE-MFS-22907-1] c 26 N76-18257

Capillary flow weld-bonding
[NASA-CASE-LAR-11726-1] c 37 N76-27568

WELDED STRUCTURES

Grain refinement control in TIG arc welding
[NASA-CASE-MSC-19095-1] c 37 N75-19683

Flanged major modular assembly jig
[NASA-CASE-MSC-19372-1] c 39 N76-31562

Weld-bonded titanium structures
[NASA-CASE-LAR-11549-1] c 37 N77-11397

Bimetallic junctions
[NASA-CASE-LEW-11573-1] c 26 N77-28265

WELDING

Segmented back-up bar Patent
[NASA-CASE-XMF-00640] c 15 N70-39924

Flexible back-up bar Patent
[NASA-CASE-XMF-00722] c 15 N70-40204

Apparatus for welding sheet material --- butt joints
[NASA-CASE-XMS-01330] c 37 N75-27376

Weld-bonded titanium structures
[NASA-CASE-LAR-11549-1] c 37 N77-11397

Method and apparatus for holding two separate metal pieces together for welding
[NASA-CASE-GSC-12318-1] c 37 N80-23855

Automatic weld torch guidance control system
[NASA-CASE-MFS-25807] c 37 N83-20154

Joining lead wires to thin platinum alloy films
[NASA-CASE-LEW-13934-1] c 35 N83-35338

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Apparatus for welding torch angle and seam tracking control Patent
[NASA-CASE-XMF-03287] c 15 N71-15607

Automatic welding speed controller Patent
[NASA-CASE-XMF-01730] c 15 N71-23050

Electric welding torch Patent
[NASA-CASE-XMF-02330] c 15 N71-23798

Welding skate with computerized control Patent
[NASA-CASE-XMF-07069] c 15 N71-23815

Computerized system for translating a torch head
[NASA-CASE-MFS-23620-1] c 37 N79-10421

WET CELLS

Method and device for determining battery state of charge Patent
[NASA-CASE-NPO-10194] c 03 N71-20407

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Pretreatment method for anti-wettable materials
[NASA-CASE-XMS-03537] c 15 N69-21471

WHEATSTONE BRIDGES

Self-balancing strain gage transducer Patent
[NASA-CASE-MFS-12827] c 14 N71-17656

Method for improving the signal-to-noise ratio of the Wheatstone bridge type bolometer Patent
[NASA-CASE-XLA-02810] c 14 N71-25901

Temperature control system with a pulse width modulated bridge
[NASA-CASE-NPO-11304] c 14 N73-26430

WHISKER COMPOSITES

Reinforced metallic composites Patent
[NASA-CASE-XLE-00228] c 17 N70-38490

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Catalyst for growth of boron carbide single crystal whiskers
[NASA-CASE-XHQ-03903] c 15 N69-21922

WICKS

Method of forming a wick for a heat pipe
[NASA-CASE-NPO-13391-1] c 34 N76-27515

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Wide angle long eye relief eyepiece Patent
[NASA-CASE-XMS-06056-1] c 23 N71-24857

WIDEBAND COMMUNICATION

Wideband heterodyne receiver for laser communication system
[NASA-CASE-GSC-12053-1] c 32 N77-28346

Multiple band circularly polarized microstrip antenna
[NASA-CASE-MSC-18334-1] c 32 N80-32604

WINCHES

Winch having cable position and load indicators Patent
[NASA-CASE-MSC-12052-1] c 15 N71-24599

WIND DIRECTION

A radionuclide counting technique for measuring wind velocity and direction
[NASA-CASE-LAR-12971-1] c 47 N83-14863

WIND EFFECTS

Viscous pendulum damper Patent
[NASA-CASE-LAR-10274-1] c 14 N71-17626

WIND MEASUREMENT

Passive optical wind and turbulence detection system Patent
[NASA-CASE-XMF-14032] c 20 N71-16340

Maxometers (peak wind speed anemometers)
[NASA-CASE-MFS-20918] c 14 N73-25460

Wind sensor
[NASA-CASE-NPO-13462-1] c 35 N76-24524

Focused laser Doppler velocimeter
[NASA-CASE-MFS-23178-1] c 35 N77-10493

Wind measurement system
[NASA-CASE-MFS-23362-1] c 47 N77-10753

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Wind velocity probing device and method Patent
[NASA-CASE-XLA-02081] c 20 N71-16281

WIND SHEAR

CAT altitude avoidance system
[NASA-CASE-NPO-15351-1] c 06 N83-10040

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Wind tunnel airstream oscillating apparatus Patent
[NASA-CASE-XLA-00112] c 11 N70-33287

Electric arc device for heating gases Patent
[NASA-CASE-XAC-00319] c 25 N70-41628

Test unit free-flight suspension system Patent
[NASA-CASE-XLA-00939] c 11 N71-15926

Burst diaphragm flow initiator Patent
[NASA-CASE-MFS-12915] c 11 N71-17600

Electric arc apparatus Patent
[NASA-CASE-XAC-01677] c 09 N71-20816

Model launcher for wind tunnels Patent
[NASA-CASE-XNP-03578] c 11 N71-23030

Wind tunnel microphone structure Patent
[NASA-CASE-XNP-00250] c 11 N71-28779

Wind tunnel
[NASA-CASE-LAR-10135-1] c 09 N79-21083

Rotary target V-block — aligning wind tunnel apparatus for optical measurement
[NASA-CASE-LAR-12007-2] c 74 N79-25876

Metric half-span model support system
[NASA-CASE-XLA-12441-1] c 09 N82-23254

Model mount system for testing flutter
[NASA-CASE-LAR-12950-1] c 09 N83-25727

Continuous laminar smoke generator — visualizing flow around wind tunnel models
[NASA-CASE-LAR-13014-1] c 28 N83-35158

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Rotary target V-block
[NASA-CASE-LAR-12007-3] c 35 N84-16523

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Electric arc driven wind tunnel Patent
[NASA-CASE-XMF-00411] c 11 N70-36913

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Flow field simulation Patent
[NASA-CASE-LAR-11138] c 12 N71-20436

Multilegged support system Patent
[NASA-CASE-XLA-01326] c 11 N71-21481

Model launcher for wind tunnels Patent
[NASA-CASE-XNP-03578] c 11 N71-23030

Wind tunnel model damper Patent
[NASA-CASE-XLA-09480] c 11 N71-33612

Wind tunnel model and method
[NASA-CASE-LAR-10812-1] c 09 N74-17955

Method for determining thermo-physical properties of specimens — photographic recording of changes in thin film phase-change temperature indicating material in wind tunnel
[NASA-CASE-LAR-11053-1] c 25 N74-18551

Metric half-span model support system
[NASA-CASE-LAR-12441-1] c 09 N82-23254

Aeroelastic instability stoppers for wind tunnel models
[NASA-CASE-LAR-12458-1] c 44 N83-21503

Aeroelastic instability stoppers for wind tunnel models
[NASA-CASE-LAR-12720-1] c 44 N83-21504

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Multi-purpose wind tunnel reaction control model block
[NASA-CASE-MSC-19706-1] c 09 N78-31129

Wind tunnel supplementary Mach number minimum section insert
[NASA-CASE-LAR-12532-1] c 09 N82-11088

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Metallic hot wire anemometer — for high speed wind tunnel tests
[NASA-CASE-ARC-10911-1] c 35 N77-20400

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Metric half-span model support system
[NASA-CASE-LAR-12441-1] c 09 N82-23254

Model mount system for testing flutter
[NASA-CASE-LAR-12950-1] c 09 N83-25727

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Sound shield
[NASA-CASE-LAR-12883-1] c 71 N83-17235

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[NASA-CASE-NPO-10617-1] c 35 N74-22095

Wind tunnel flow generation section
[NASA-CASE-ARC-10710-1] c 09 N75-12969

Apparatus for reducing aerodynamic noise in a wind tunnel
[NASA-CASE-MFS-23099-1] c 09 N76-23273

Static pressure orifice system testing method and apparatus
[NASA-CASE-LAR-12269-1] c 35 N80-18358

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Amplified wind turbine apparatus
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Miniature electro-optical air flow sensor
[NASA-CASE-LAR-13065-1] c 74 N83-25539

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A radionuclide counting technique for measuring wind velocity and direction
[NASA-CASE-LAR-12971-1] c 47 N83-14863

WIND VELOCITY MEASUREMENT

Wind velocity probing device and method Patent
[NASA-CASE-XLA-02081] c 20 N71-16281

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Conically shaped cavity radiometer with a dual purpose cone winding Patent
[NASA-CASE-XNP-09701] c 14 N71-26475

Pulse coupling circuit
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[NASA-CASE-NPO-10890] c 11 N73-12265

Glass heating panels and method for preparing the same from architectural reflective glass
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Amplified wind turbine apparatus
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Wind wheel electric power generator
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Electrical power generating system — for windpowered generation
[NASA-CASE-MFS-24368-3] c 33 N81-22280

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[NASA-CASE-ARC-10813-1] c 27 N76-16230

WING FLAPS

Jet aircraft configuration Patent
[NASA-CASE-XLA-00087] c 02 N70-33332

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Variable-span aircraft Patent
[NASA-CASE-XLA-00166] c 02 N70-34178

Annular wing
[NASA-CASE-FRC-11007-2] c 05 N82-26277

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Solar powered aircraft
[NASA-CASE-LAR-12615-1] c 05 N84-12154

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Wingtip vortex dissipator for aircraft
[NASA-CASE-LAR-11645-1] c 02 N77-10001

Wingtip vortex propeller
[NASA-CASE-LAR-13019-1] c 02 N84-20495

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[NASA-CASE-LAR-12544-1] c 07 N81-27096

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[NASA-CASE-LAR-10574-1] c 11 N73-13257

Surface finishing — for aircraft wings
[NASA-CASE-MSC-12631-1] c 24 N77-28225

Free wing assembly for an aircraft
[NASA-CASE-FRC-10092-1] c 05 N79-12061

Detection of the transitional layer between laminar and turbulent flow areas on a wing surface — using an accelerometer to measure pressure levels during wind tunnel tests
[NASA-CASE-LAR-12261-1] c 02 N80-20224

System for use in conducting wake investigation for a wing in flight — differential pressure measurements for drag investigations
[NASA-CASE-FRC-11024-1] c 02 N80-28300

Means for controlling aerodynamically induced twist
[NASA-CASE-LAR-12175-1] c 05 N82-28279

Decoupler pylon: wing/store flutter suppressor
[NASA-CASE-LAR-12468-1] c 08 N82-32373

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[NASA-CASE-LEW-13773-1] c 05 N83-29197

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Transpiration cooled turbine blade manufactured from wires Patent
[NASA-CASE-XLE-00020] c 15 N70-33226

Soldering device Patent
[NASA-CASE-XLA-08911] c 15 N71-27214

Forming tool for ribbon or wire
[NASA-CASE-XLA-05966] c 15 N72-12408

Method of removing insulated material from insulated wires
[NASA-CASE-FRC-10038] c 15 N72-20444

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Butt welder for fine gauge tungsten/rhenium thermocouple wire
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- Adjustable tension wire guide Patent
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- Superconducting alternator Patent
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- Electric motive machine including magnetic bearing
[NASA-CASE-XGS-07805] c 15 N72-33476
- Laser measuring system for incremental assemblies --- measuring wire-wrapped frame assemblies in spark chambers
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- Silent emergency alarm system for schools and the like
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- RF beam center location method and apparatus for power transmission system
[NASA-CASE-NPO-13821-1] c 44 N78-28594

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- Apparatus for testing wiring harness by vibration generating means
[NASA-CASE-MSC-15158-1] c 14 N72-17325
- Test apparatus for locating shorts during assembly of electrical buses
[NASA-CASE-ARC-11116-1] c 33 N82-24420

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- Parallel generation of the check bits of a PN sequence Patent
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- Digital memory in which the driving of each word location is controlled by a switch core Patent
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[NASA-CASE-MSC-19693-1] c 26 N78-24333

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- Heat pipe with dual working fluids
[NASA-CASE-ARC-10198] c 34 N78-17336
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- Zero torque gear head wrench
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- High-torque open-end wrench
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- Wrist joint assembly
[NASA-CASE-MFS-23311-1] c 54 N78-17676

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- Low X-ray absorption aneurism clips
[NASA-CASE-LAR-12650-1] c 52 N81-29768

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- Device and method for determining X ray reflection efficiency of optical surfaces
[NASA-CASE-MFS-20243] c 23 N73-13662
- X-ray position detector
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X RAY DIFFRACTION

- Apparatus for use in examining the lattice of a semiconductor wafer by X-ray diffraction
[NASA-CASE-MFS-23315-1] c 76 N78-24950

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- Low intensity X-ray and gamma-ray imaging device --- fiber optics
[NASA-CASE-GSC-12263-1] c 74 N79-20857
- X-ray determination of parts alignment
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- Real-time 3-D X-ray and gamma-ray viewer
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- Method of determining bond quality of power transistors attached to substrates --- X ray inspection of junction microstructure
[NASA-CASE-MFS-21931-1] c 37 N75-26372
- Apparatus for use in examining the lattice of a semiconductor wafer by X-ray diffraction
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- Multiple environment materials test chamber having a multiple port X-ray tube for irradiating a plurality of samples Patent
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- Imaging X-ray spectrometer
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- Imaging X-ray spectrometer
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- Low intensity X-ray and gamma-ray spectrometer
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[NASA-CASE-XHQ-04106] c 14 N70-40240
- Three mirror glancing incidence system for X-ray telescope
[NASA-CASE-MFS-21372-1] c 74 N74-27866
- Method of and means for testing a glancing-incidence mirror system of an X-ray telescope
[NASA-CASE-MFS-22409-2] c 74 N78-15880
- Extended range X-ray telescope
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- Spectral slicing X-ray telescope with variable magnification
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[NASA-CASE-XNP-06031] c 15 N71-15606
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[NASA-CASE-NPO-13808-1] c 35 N78-15461
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[NASA-CASE-XLE-06094] c 33 N78-17293
- Spatial energy distribution --- scanning a tunable diode laser beam automatically
[NASA-CASE-LAR-12631-1] c 35 N82-18557

X-15 AIRCRAFT

- Energy management system for glider type vehicle Patent
[NASA-CASE-XFR-00756] c 02 N71-13421

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- Optical pump and driver system for lasers
[NASA-CASE-ERC-10283] c 16 N72-25485
- Purging means and method for Xenon arc lamps
[NASA-CASE-NPO-11978] c 31 N78-17238
- Multiple anode arc lamp system
[NASA-CASE-NPO-10857-1] c 33 N80-14330

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- Dually mode locked Nd:YAG laser
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- Length controlled stabilized mode-lock Nd:YAG laser
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- Flexible pile thermal barrier insulator
[NASA-CASE-MSC-19568-1] c 34 N78-25350
- Lightweight electrically-powered flexible thermal laminate --- made of metal and nonconductive yarns
[NASA-CASE-MSC-12662-1] c 33 N79-12331

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- Three-axis controller Patent
[NASA-CASE-XAC-01404] c 05 N70-41581
- Thrust augmented spin recovery device
[NASA-CASE-LAR-11870-2] c 08 N81-19130

YIELD STRENGTH

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- Potassium silicate zinc coatings
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- Rechargeable battery which combats shape change of the zinc anode
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- Synthesis of zinc titanate pigment and coatings containing the same
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- Brazing alloy
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- Zinc-halide battery with molten electrolyte
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- Method of preparing zinc orthotitanate pigment
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- Method of forming transparent films of ZnO
[NASA-CASE-FRC-10019] c 15 N73-12487

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- Nicral ternary alloy having improved cyclic oxidation resistance
[NASA-CASE-LEW-13339-1] c 26 N82-31505
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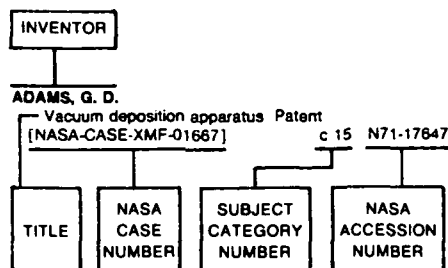
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- Zirconium carbide as an electrocatalyst for the chromous-chromic redox couple
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Typical Inventor Index Listing



Listings in this index are arranged alphabetically by inventor. The title of the document provides the user with a brief description of the subject matter. The NASA Case Number is the prime access point to patent documents. The subject category number indicates the category in Section 1 (Abstracts) in which the citation is located. The NASA accession number denotes the number by which the citation is identified within the subject category. The titles are arranged under each inventor in ascending accession number order.

A

ABEL, I. R.
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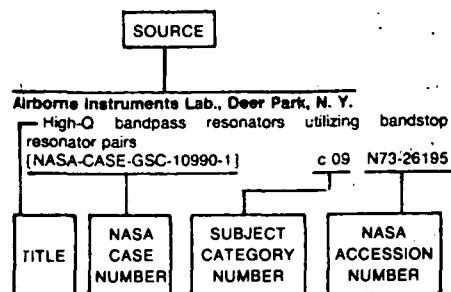
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Section 2

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[NASA-CASE-LAR-12552-1] c 35 N82-11431

Boeing Aerospace Co., Houston, Tex.
Fluid sample collection and distribution system
[NASA-CASE-MSC-16841-1] c 34 N79-24285
Method and automated apparatus for detecting coliform organisms
[NASA-CASE-MSC-16777-1] c 51 N80-27067

Boeing Aerospace Co., Seattle, Wash.
Method and apparatus for fabricating improved solar cell modules
[NASA-CASE-NPO-14416-1] c 44 N81-14389

Boeing Co., Cocoa Beach, Fla.

Positive contact resistance soldering unit
[NASA-CASE-KSC-10242] c 15 N72-23497
Variable resistance constant tension and lubrication device
[NASA-CASE-KSC-10723-1] c 37 N75-13265

Boeing Co., Houston, Tex.

Method and apparatus for eliminating luminol interference material
[NASA-CASE-MSC-16260-1] c 51 N80-16714

Boeing Co., Huntsville, Ala.

Hydrogen fire blink detector
[NASA-CASE-MFS-15063] c 14 N72-25412
Borescope with variable angle scope
[NASA-CASE-MFS-15162] c 14 N72-32452

Guide for a typewriter
[NASA-CASE-MFS-15218-1] c 37 N77-19457

Boeing Co., Pasadena, Tex.

Medical subject monitoring systems
[NASA-CASE-MSC-14180-1] c 52 N76-14757

Boeing Co., Seattle, Wash.

Strain gage Patent Application
[NASA-CASE-FRC-10053] c 14 N70-35587
Method of inhibiting stress corrosion cracks in titanium alloys Patent
[NASA-CASE-NPO-10271] c 17 N71-16393

Strain sensor for high temperatures Patent
[NASA-CASE-XNP-09205] c 14 N71-17657
Forming tool for ribbon or wire
[NASA-CASE-XLA-05966] c 15 N72-12408

Solar cell assembly test method
[NASA-CASE-NPO-10401] c 03 N72-20033
Thermal compression bonding of interconnectors
[NASA-CASE-GSC-10303] c 15 N72-22487

Extrusion can
[NASA-CASE-NPO-10812] c 15 N73-13484
Radiation sensitive solid state switch
[NASA-CASE-NPO-10817-1] c 08 N73-30135

Plasma cleaning device
[NASA-CASE-MFS-22906-1] c 75 N78-27913
Calibrating pressure switch
[NASA-CASE-XMF-04494-1] c 33 N79-33392

Boeing Commercial Airplane Co., Seattle, Wash.

Improved tire/wheel concept
[NASA-CASE-LAR-11695-2] c 37 N80-18402
Tire/wheel concept
[NASA-CASE-LAR-11695-2] c 37 N81-24443

Fuselage structure using advanced technology fiber reinforced composites
[NASA-CASE-LAR-11688-1] c 24 N82-26384

Borden, Inc., New York, N. Y.

Process of treating cellulosic membrane and alkaline with membrane separator
[NASA-CASE-GSC-10019-1] c 44 N82-24641
Separator for alkaline batteries and method of making same
[NASA-CASE-GSC-10350-1] c 44 N82-24642

Separator for alkaline electric cells and method of making
[NASA-CASE-GSC-10017-1] c 44 N82-24643
Separator for alkaline electric batteries and method of making
[NASA-CASE-GSC-10018-1] c 44 N82-24644

Alkaline electrochemical cells and method of making
[NASA-CASE-GSC-10349-1] c 44 N82-24645
Aqueous alkali metal hydroxide insoluble cellulose ether membrane
[NASA-CASE-XGS-05584-1] c 25 N82-29370

Borg-Warner Corp., Chicago, Ill.
Data transfer system Patent
[NASA-CASE-NPO-12107] c 08 N71-27255

Brown and Root-Northrop, Houston, Tex.
Anti-fog composition
[NASA-CASE-MSC-13530-2] c 23 N75-14834

Brown Engineering Co., Inc., Huntsville, Ala.
Air bearing Patent
[NASA-CASE-XMF-01887] c 15 N71-10617
Collapsible nozzle extension for rocket engines
Patent
[NASA-CASE-MFS-11497] c 28 N71-16224

Inspection gage for boss Patent
[NASA-CASE-XMF-04966] c 14 N71-17658
Method of recording a gas flow pattern Patent
[NASA-CASE-XMF-01779] c 12 N71-20815

Trigonometric vehicle guidance assembly which aligns the three perpendicular axes of two three-axes systems
Patent
[NASA-CASE-XMF-00684] c 21 N71-21688

Vapor liquid separator Patent
[NASA-CASE-XMF-04042] c 15 N71-23023
Thruster maintenance system Patent
[NASA-CASE-MFS-20325] c 28 N71-27095

Inflatable transpiration cooled nozzle
[NASA-CASE-MFS-20619] c 28 N72-11708

California Computer Products, Inc., Anaheim.

Temperature regulation circuit Patent
[NASA-CASE-XNP-02792] c 14 N71-28958

California Inst. of Tech., Pasadena.

Attitude control for spacecraft Patent
[NASA-CASE-XNP-02882] c 31 N70-41855
Baseband signal combiner for large aperture antenna array
[NASA-CASE-NPO-14841-1] c 32 N81-29308

Schottky barrier solar cell
[NASA-CASE-NPO-13689-2] c 44 N81-29525
Interferometer
[NASA-CASE-NPO-14448-1] c 74 N81-29963

Crude oil desulfurization
[NASA-CASE-NPO-14542-1] c 25 N82-23282
Electronic system for high power load control
[NASA-CASE-NPO-15358-1] c 33 N83-27126

California Univ., Berkeley.

Adjustable mount for a trihedral mirror Patent
[NASA-CASE-XNP-08907] c 23 N71-28123
Infrared detectors
[NASA-CASE-LAR-10728-1] c 14 N73-12445

Resistive anode image converter
[NASA-CASE-HQN-10876-1] c 33 N76-27473
Low gravity phase separator
[NASA-CASE-MSC-14773-1] c 35 N78-12390

Automatic multiple-sample applicator and electrophoresis apparatus
[NASA-CASE-ARC-10991-1] c 25 N78-14104
Process for preparing higher oxides of the alkali and alkaline earth metals
[NASA-CASE-ARC-10992-1] c 26 N78-22229

Microelectrophoretic apparatus and process
[NASA-CASE-ARC-11121-1] c 25 N79-14169

California Univ., Los Angeles.

Continuous plasma light source
[NASA-CASE-XNP-04187-2] c 25 N72-24753
Continuous plasma laser
[NASA-CASE-XNP-04167-3] c 36 N77-19416

Catholic Univ. of America, Washington, D.C.

Electromagnetic wave energy converter
[NASA-CASE-GSC-11394-1] c 09 N73-32109

Chance Vought Corp., Dallas, Tex.

Coupling for linear shaped charge Patent
[NASA-CASE-XLA-00189] c 33 N70-36846
Spin forming tubular elbows Patent
[NASA-CASE-XMF-01083] c 15 N71-22723

Single action separation mechanism Patent
[NASA-CASE-XLA-00188] c 15 N71-22874

Chrysler Corp., Detroit, Mich.

Ceramic insulation for radiant heating environments and method of preparing the same Patent
[NASA-CASE-MFS-14253] c 33 N71-24858
Constant temperature heat sink for calorimeters
Patent
[NASA-CASE-XMF-04208] c 33 N71-29051

Chrysler Corp., Huntsville, Ala.

Apparatus for ejection of an instrument cover
[NASA-CASE-XMF-04132] c 15 N69-27502

Clemson Univ., S.C.

Method of forming dynamic membrane on stainless steel support
[NASA-CASE-MSC-18172-1] c 26 N80-19237

Collins Radio Co., Cedar Rapids, Iowa.

Power responsive overload sensing circuit Patent
[NASA-CASE-GSC-10687-1] c 10 N71-33129
Chassis unit insert tightening-extract device
[NASA-CASE-XMS-01077-1] c 37 N79-33487

Collins Radio Co., Dallas, Tex.

Signal path series step biased multidevice high efficiency amplifier Patent
[NASA-CASE-GSC-10668-1] c 07 N71-28430
Heat conductive resiliently compressible structure for space electronics package modules Patent
[NASA-CASE-MSC-12389] c 33 N71-29052

Infinite range electronics gain control circuit
[NASA-CASE-GSC-10786-1] c 10 N72-28241

Colorado State Univ., Fort Collins.

Apparatus for extraction and separation of a preferentially photo-dissociated molecular isotope into positive and negative ions by means of an electric field
[NASA-CASE-LEW-12465-1] c 25 N78-25148

Comprehensive Designers, Inc., Sherman Oaks, Calif.
Vehicle for use in planetary exploration
[NASA-CASE-NPO-11366] c 11 N73-26238

Computer Control Co., Inc., Framingham, Mass.
Test fixture for pellet-like electrical elements
[NASA-CASE-XNP-06032] c 09 N69-21926
Support structure for irradiated elements Patent
[NASA-CASE-XNP-06031] c 15 N71-15606

Counter Patent
[NASA-CASE-XNP-06234] c 10 N71-27137

Computer Sciences Corp., Falls Church, Va.
Oceanic wave measurement system
[NASA-CASE-MFS-23862-1] c 48 N80-18667

Computer Sciences Corp., Mountain View, Calif.
Thumb actuated two axis controller
[NASA-CASE-ARC-11372-1] c 08 N83-12098

Corrac Corp., Pasadena, Calif.
Penetrating radiation system for detecting the amount of liquid in a tank Patent
[NASA-CASE-LEW-12280] c 27 N71-16348

Consolidated Controls Corp., El Segundo, Calif.
Low temperature latching solenoid
[NASA-CASE-MSC-18106-1] c 33 N82-11357

Cornell Univ., Ithaca, N.Y.
Flux sensing device using a tubular core with toroidal gating coil and solenoidal output coil wound thereon Patent
[NASA-CASE-XGS-01881] c 09 N70-40123

Crane Co., Burbank, Calif.
Hydraulic transformer Patent
[NASA-CASE-MFS-20830] c 15 N71-30028

Curtiss-Wright Corp., Wood-Ridge, N.J.
Gas turbine combustion apparatus Patent
[NASA-CASE-XLE-103477-1] c 28 N71-20330

Cutler-Hammer, Inc., Melville, N.Y.
Wideband heterodyne receiver for laser communication system
[NASA-CASE-GSC-12053-1] c 32 N77-28346

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Delaware Univ., Newark.
High field CdS detector for infrared radiation
[NASA-CASE-LAR-11027-1] c 35 N74-18088

Denver Univ., Colo.
Metal shearing energy absorber
[NASA-CASE-HQN-10638-1] c 15 N73-30460

Department of Transportation, Cambridge, Mass.
Optical noise suppression device and method
[NASA-CASE-MSC-12640-1] c 74 N76-31998

Dorne and Margolin, Inc., Bohemia, N.Y.
Nose cone mounted heat resistant antenna Patent
[NASA-CASE-XMS-04312] c 07 N71-22984

Douglas Aircraft Co., Inc., Santa Monica, Calif.
Recoverable single stage spacecraft booster Patent
[NASA-CASE-XMF-01973] c 31 N70-41588

Switching circuit employing regeneratively connected complementary transistors Patent
[NASA-CASE-XNP-02654] c 10 N70-42032

Split nut separation system Patent
[NASA-CASE-XNP-06914] c 15 N71-21489

Artificial gravity spin deployment system Patent
[NASA-CASE-XNP-02595] c 31 N71-21881

Portable superclean air column device Patent
[NASA-CASE-XMF-03212] c 15 N71-22721

Energy absorption device Patent
[NASA-CASE-XNP-01848] c 15 N71-28959

Collapsible pistons
[NASA-CASE-MSC-13789-1] c 11 N73-32152

Duke Univ., Durham, N.C.
Regulated dc-to-dc converter for voltage step-up or step-down with input-output isolation
[NASA-CASE-HQN-10792-1] c 33 N74-11049

Dumont Electron Tubes, Clifton, N.J.
High contrast cathode ray tube
[NASA-CASE-ERC-10468] c 09 N72-20206

Dynatherm Corp., Cockeysville, Md.
Heat pipe thermal switch
[NASA-CASE-GSC-12812-1] c 34 N83-35307

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Echo Science Corp., Mountain View, Calif.
Dynamic capacitor having a peripherally driven element and system incorporating the same
[NASA-CASE-XNP-02899-1] c 33 N79-21265

Eitel-McCullough, Inc., San Carlos, Calif.
Method of forming ceramic to metal seal Patent
[NASA-CASE-XNP-01263-2] c 15 N71-26312

Electrac, Inc., Anaheim, Calif.
Optimum predetection diversity receiving system Patent
[NASA-CASE-XGS-00740] c 07 N71-23098

Electric Storage Battery Co., Raleigh, N.C.
Electric battery and method for operating same Patent
[NASA-CASE-XGS-01674] c 03 N71-29129

Storage battery comprising negative plates of a wedge shaped configuration
[NASA-CASE-NPO-11806-1] c 44 N74-19693

Electric Storage Battery Co., Yardley, Pa.
Electric storage battery
[NASA-CASE-NPO-11021] c 03 N72-20032

Electro-Optical Systems, Inc., Pasadena, Calif.
Focussing system for an ion source having apertured electrodes Patent
[NASA-CASE-XNP-03332] c 09 N71-10618

Electrolytically regenerative hydrogen-oxygen fuel cell Patent
[NASA-CASE-XLE-04526] c 03 N71-11052

Method of producing refractory bodies having controlled porosity Patent
[NASA-CASE-LEW-10393-1] c 17 N71-15468

Soil particles separator, collector and viewer Patent
[NASA-CASE-XNP-09770] c 15 N71-20440

Particle detection apparatus including a ballistic pendulum Patent
[NASA-CASE-XMS-04201] c 14 N71-22990

Polarity sensitive circuit Patent
[NASA-CASE-XNP-00952] c 10 N71-23271

Ion engine casing construction and method of making same Patent
[NASA-CASE-XNP-06942] c 28 N71-23293

Material handling device Patent
[NASA-CASE-XNP-09770-3] c 11 N71-27036

Screen particle separator
[NASA-CASE-XNP-09770-2] c 15 N72-22483

Electronic Image Systems Corp., Cambridge, Mass.
Drying apparatus for photographic sheet material
[NASA-CASE-GSC-11074-1] c 14 N73-28489

Essex Corp., Huntsville, Ala.
Satellite retrieval system
[NASA-CASE-MFS-25403-1] c 18 N83-29303

Ewen Knight Corp., East Natick, Mass.
Method and means for providing an absolute power measurement capability Patent
[NASA-CASE-ERC-11020] c 14 N71-26774

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Fairchild Hiller Corp., Germantown, Md.
Two axis fluxgate magnetometer Patent
[NASA-CASE-GSC-10441-1] c 14 N71-27325

Space simulation and radiative property testing system and method Patent
[NASA-CASE-MFS-20096] c 14 N71-30026

Thermal control system for a spacecraft modular housing
[NASA-CASE-GSC-11018-1] c 31 N73-30829

Fairchild Republic Co., Farmingdale, N.Y.
Surface conforming thermal/pressure seal
[NASA-CASE-MSC-18422-1] c 37 N82-16408

Faraday Labs., Inc., La Jolla, Calif.
Method for attaching a fused-quartz mirror to a conductive metal substrate
[NASA-CASE-MFS-23405-1] c 26 N77-29260

Federal-Mogul Corp., Los Alamitos, Calif.
Hydraulic casting of liquid polymers Patent
[NASA-CASE-XNP-07659] c 06 N71-22975

Florida Univ., Gainesville.
Safety flywheel
[NASA-CASE-HQN-10888-1] c 44 N79-14527

FMC Corp., New York.
Decomposition unit Patent
[NASA-CASE-XMS-00583] c 28 N70-38504

Foothill Coll., Los Altos Hills, Calif.
Electrical conductivity cell and method for fabricating the same
[NASA-CASE-ARC-10810-1] c 33 N76-19339

Ford Motor Co., Dearborn, Mich.
Omnidirectional acceleration device Patent
[NASA-CASE-HQN-10780] c 14 N71-30265

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Garrett Corp., Los Angeles, Calif.
Relief valve
[NASA-CASE-XMS-05894-1] c 15 N69-21924

Portable environmental control system Patent
[NASA-CASE-XMS-09632-1] c 05 N71-11203

Dual latching solenoid valve Patent
[NASA-CASE-XMS-05890] c 09 N71-23191

Water management system and an electrolytic cell therefor Patent
[NASA-CASE-MSC-10960-1] c 03 N71-24718

Low cycle fatigue testing machine
[NASA-CASE-LAR-10270-1] c 32 N72-25877

Process for separation of dissolved hydrogen from water by use of palladium and process for coating palladium with palladium black
[NASA-CASE-MSC-13335-1] c 06 N72-31140

Flexible joint for pressurizable garment
[NASA-CASE-MSC-11072] c 54 N74-32546

Gas compression apparatus
[NASA-CASE-MSC-14757-1] c 35 N78-10428

Wind tunnel
[NASA-CASE-LAR-10135-1] c 09 N79-21083

Water separator
[NASA-CASE-XMS-01295-1] c 37 N79-21345

Garrett Corp., Torrance, Calif.
Adaptive reference voltage generator for firing angle control of line-commutated inverters
[NASA-CASE-MFS-25215-1] c 33 N83-31953

GCA Corp., Bedford, Mass.
Analytical photoionization mass spectrometer with an argon gas filter between the light source and monochromator Patent
[NASA-CASE-LAR-10180-1] c 06 N71-13461

General Dynamics/Astronautics, San Diego, Calif.
Determination of spot weld quality Patent
[NASA-CASE-XNP-02588] c 15 N71-18613

Pressure transducer calibrator Patent
[NASA-CASE-XNP-01660] c 14 N71-23036

Plating nickel on aluminum castings Patent
[NASA-CASE-XNP-04148] c 17 N71-24830

General Dynamics/Convair, San Diego, Calif.
Signal generator
[NASA-CASE-XNP-05612] c 09 N69-21468

Separation nut Patent
[NASA-CASE-XGS-01971] c 15 N71-15922

Zero gravity separator Patent
[NASA-CASE-XLE-00586] c 15 N71-15968

Catalyst cartridge for carbon dioxide reduction unit
[NASA-CASE-LAR-10551-1] c 25 N74-12813

Heat exchanger
[NASA-CASE-MFS-22991-1] c 34 N77-10463

General Dynamics Corp., San Diego, Calif.
Light radiation direction indicator with a baffle of two parallel grids
[NASA-CASE-XNP-03930] c 14 N69-24331

Method and apparatus for attaching physiological monitoring electrodes Patent
[NASA-CASE-XFR-07658-1] c 05 N71-26293

Driving lamps by induction
[NASA-CASE-MFS-21214-1] c 09 N73-30181

General Electric Co., Cincinnati, Ohio.
Dual output variable pitch turbofan actuation system
[NASA-CASE-LEW-12419-1] c 07 N77-14025

Reverse pitch fan with divided splitter
[NASA-CASE-LEW-12760-1] c 07 N77-17059

Leading edge protection for composite blades
[NASA-CASE-LEW-12550-1] c 24 N77-19170

Oil cooling system for a gas turbine engine
[NASA-CASE-LEW-12830-1] c 07 N77-23106

Blade retainer assembly
[NASA-CASE-LEW-12608-1] c 07 N77-27116

Platform for a swing root turbomachinery blade
[NASA-CASE-LEW-12312-1] c 07 N77-32148

Deformable bearing seat
[NASA-CASE-LEW-12527-1] c 37 N77-32500

Bearing seat usable in a gas turbine engine
[NASA-CASE-LEW-12477-1] c 37 N77-32501

Oil cooling system for a gas turbine engine
[NASA-CASE-LEW-12321-1] c 37 N78-10467

Impact absorbing blade mounts for variable pitch blades
[NASA-CASE-LEW-12313-1] c 37 N78-10468

Variable thrust nozzle for quiet turbofan engine and method of operating same
[NASA-CASE-LEW-12317-1] c 07 N78-17055

Gas turbine engine with convertible accessories
[NASA-CASE-LEW-12390-1] c 07 N78-17056

Variable cycle gas turbine engines
[NASA-CASE-LEW-12916-1] c 37 N78-17384

Gas turbine engine with recirculating bleed
[NASA-CASE-LEW-12452-1] c 07 N78-25089

Redundant disc
[NASA-CASE-LEW-12496-1] c 07 N78-33101

Fuel delivery system including heat exchanger means
[NASA-CASE-LEW-12793-1] c 37 N79-11403

Integrated gas turbine engine-nacelle
[NASA-CASE-LEW-12389-3] c 07 N79-14096

Variable area exhaust nozzle
[NASA-CASE-LEW-12378-1] c 07 N79-14097

Sound-suppressing structure with thermal relief
[NASA-CASE-LEW-12658-1] c 71 N79-14871

Method and apparatus for rapid thrust increases in a turbofan engine
[NASA-CASE-LEW-12971-1] c 07 N80-18039

Curved centerline air intake for a gas turbine engine
[NASA-CASE-LEW-13201-1] c 07 N81-14999

Apparatus for sensor failure detection and correction in a gas turbine engine control system
[NASA-CASE-LEW-12907-2] c 07 N81-19115

Integrated control system for a gas turbine engine
[NASA-CASE-LEW-12594-2] c 07 N81-19116

Thrust reverser for a long duct fan engine
[NASA-CASE-LEW-13199-1] c 07 N82-26293

Control means for a gas turbine engine
[NASA-CASE-LEW-14586-1] c 07 N83-31603

Apparatus for improving the fuel efficiency of a gas turbine engine
[NASA-CASE-LEW-13142-1] c 07 N83-36029

General Electric Co., Cleveland, Ohio.

Variable mixer propulsion cycle
[NASA-CASE-LEW-12917-1] c 07 N78-18067

General Electric Co., Philadelphia, Pa.

Catalyst for growth of boron carbide single crystal whiskers
[NASA-CASE-XHQ-03903] c 15 N69-21922Didymium hydrate additive to nickel hydroxide electrodes Patent
[NASA-CASE-XGS-03505] c 03 N71-10608Bismuth-lead coatings for gas bearings used in atmospheric environments and vacuum chambers Patent
[NASA-CASE-XGS-02011] c 15 N71-20739Automatic control of liquid cooling garment by cutaneous and external auditory meatus temperatures
[NASA-CASE-MSC-13917-1] c 05 N72-15098Method for measuring cutaneous sensory perception
[NASA-CASE-MSC-13609-1] c 05 N72-25122Reaction tester
[NASA-CASE-MSC-13804-1] c 05 N73-13114Air conditioned suit
[NASA-CASE-LAR-10078-1] c 05 N73-20137Compton scatter attenuation gamma ray spectrometer
[NASA-CASE-MFS-21441-1] c 14 N73-30392Inverter ratio failure detector
[NASA-CASE-NPO-13160-1] c 35 N74-18090Electrophoretic sample insertion
[NASA-CASE-MFS-21395-1] c 25 N74-26948Apparatus for conducting flow electrophoresis in the substantial absence of gravity
[NASA-CASE-MFS-21394-1] c 34 N74-27744Multiparameter vision testing apparatus
[NASA-CASE-MSC-13801-2] c 54 N75-27759Automatic bioassay sampling
[NASA-CASE-MSC-14840-1] c 54 N76-14804Solar cell module
[NASA-CASE-NPO-14467-1] c 44 N79-31753Voltage feed through apparatus having reduced partial discharge
[NASA-CASE-GSC-12347-1] c 33 N80-18286

General Electric Co., Pleasanton, Calif.

Method of making a cermet Patent
[NASA-CASE-LEW-10218-1] c 18 N71-28729

General Electric Co., Schenectady, N. Y.

Superconductive accelerometer Patent
[NASA-CASE-XMF-01099] c 14 N71-15969Remote manipulator system
[NASA-CASE-MFS-22022-1] c 37 N76-15460Automatic transponder
[NASA-CASE-GSC-12075-1] c 32 N77-31350Directionally solidified eutectic gamma plus beta nickel-base superalloys
[NASA-CASE-LEW-12906-1] c 26 N77-32279

General Electric Co., Utica, N. Y.

Method of determining bond quality of power transistors attached to substrates
[NASA-CASE-MFS-21831-1] c 37 N75-26372

General Motors Corp., Detroit, Mich.

Hermetic sealed vibration damper Patent
[NASA-CASE-MSC-10959] c 15 N71-26243

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Adjustable tension wire guide Patent
[NASA-CASE-XMS-02383] c 15 N71-15918

General Motors Corp., Santa Barbara, Calif.

Resilient wheel Patent
[NASA-CASE-MFS-13929] c 15 N71-27091

General Precision, Inc., Little Falls, N.J.

Reversible current control apparatus Patent
[NASA-CASE-XLA-09371] c 10 N71-18724

General Precision, Inc., Sunnyvale, Calif.

Broadband video process with very high input impedance
[NASA-CASE-NPO-10199] c 09 N72-17156

General Precision Systems, Inc., Little Falls, N.J.

Fluidic-thermochromic display device Patent
[NASA-CASE-ERC-10031] c 12 N71-18603

General Technologies Corp., Reston, Va.

Method of making reinforced composite structure
[NASA-CASE-LEW-12619-1] c 24 N77-19171

Geophysics Corp. of America, Bedford, Mass.

Inflation system for balloon type satellites Patent
[NASA-CASE-XGS-03351] c 31 N71-16081Bakeable McLeod gauge
[NASA-CASE-XGS-01293-1] c 35 N79-33450

Geophysics Corp. of America, Boston, Mass.

Ionospheric battery Patent
[NASA-CASE-XGS-01593] c 03 N70-35408

George Washington Univ., Washington, D.C.

Bacteria detection instrument and method
[NASA-CASE-GSC-11533-1] c 14 N73-13435Arterial pulse wave pressure transducer
[NASA-CASE-GSC-11531-1] c 52 N74-27566

Giannini Scientific Corp., Santa Ana, Calif.

Electric arc light source having undercut recessed anode
[NASA-CASE-ARC-10268-1] c 33 N75-29318Combination automatic-starting electrical plasma torch and gas shutoff valve
[NASA-CASE-XLE-10717] c 37 N75-29426

Giner, Inc., Waltham, Mass.

Catalyst surfaces for the chromous/chromic redox couple
[NASA-CASE-LEW-13148-1] c 33 N80-20487Catalyst surfaces for the chromous/chromic redox couple
[NASA-CASE-LEW-13148-2] c 44 N81-29524

Globe-Union, Inc., Milwaukee, Wis.

Method of coating solar cell with borosilicate glass and resultant product
[NASA-CASE-GSC-11514-1] c 03 N72-24037

Goodyear Aerospace Corp., Akron, Ohio.

Foldable solar concentrator Patent
[NASA-CASE-XLA-04822] c 03 N70-41580Method of making a filament-wound container Patent
[NASA-CASE-XLE-03803-2] c 15 N71-17651Filament wound container Patent
[NASA-CASE-XLE-03803] c 15 N71-23816Panelized high performance multilayer insulation Patent
[NASA-CASE-MFS-14023] c 33 N71-25351Thermally activated foaming compositions Patent
[NASA-CASE-LAR-10373-1] c 18 N71-26155Compression test assembly
[NASA-CASE-LAR-10440-1] c 14 N73-32323Deployable flexible tunnel
[NASA-CASE-MFS-22636-1] c 37 N76-22540

Grace (W. R.) and Co., Clarksville, Md.

Metal containing polymers from cyclic tetrameric phenylphosphonitriamides Patent
[NASA-CASE-HQN-10364] c 06 N71-27363

Grumman Aircraft Engineering Corp., Bethpage, N. Y.

Sealed cabinetry Patent
[NASA-CASE-MSC-12168-1] c 09 N71-18600Out of tolerance warning alarm system for plurality of monitored circuits Patent
[NASA-CASE-XMS-10984-1] c 10 N71-19417

Gulf General Atomic, San Diego, Calif.

Waveform simulator Patent
[NASA-CASE-NPO-10251] c 10 N71-27365

Gulton Industries, Inc., Albuquerque, N.Mex.

Analog-to-digital converter
[NASA-CASE-MSC-13110-1] c 08 N72-22163

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Hamilton Standard, Hartford, Conn.

Slow opening valve
[NASA-CASE-MSC-20112-1] c 37 N82-28641

Hamilton Standard, Windsor Locks, Conn.

Venting device for pressurized space suit helmet Patent
[NASA-CASE-XMS-09652-1] c 05 N71-26333Regenerable device for scrubbing breathable air of CO₂ and moisture without special heat exchanger equipment
[NASA-CASE-MSC-14771-1] c 54 N77-32722Cell and method for electrolysis of water and anode
[NASA-CASE-MSC-16394-1] c 28 N81-24280Reactant pressure differential control for fuel cell gases
[NASA-CASE-MSC-20127-1] c 44 N82-32843

Hamilton Standard Div., United Aircraft Corp., Windsor Locks, Conn.

Condensate removal device for heat exchanger
[NASA-CASE-MSC-14143-1] c 77 N75-20139

Harris Corp., Melbourne, Fla.

Adaptive polarization separation
[NASA-CASE-LAR-12196-1] c 33 N81-26358Telescoping columns
[NASA-CASE-LAR-12195-1] c 31 N81-27324

Hayes International Corp., Birmingham, Ala.

Space craft soft landing system Patent
[NASA-CASE-XMF-02108] c 31 N70-36845Device for preventing high voltage arcing in electron beam welding Patent
[NASA-CASE-XMF-08522] c 15 N71-19486

Hayes International Corp., Huntsville, Ala.

Method and apparatus for cryogenic wire stripping Patent
[NASA-CASE-MFS-10340] c 15 N71-17628Self-balancing strain gage transducer Patent
[NASA-CASE-MFS-12827] c 14 N71-17656Automatic closed circuit television arc guidance control Patent
[NASA-CASE-MFS-13046] c 07 N71-19433

Hazleton Labs., Falls Church, Va.

Use of the enzyme hexokinase for the reduction of inherent light levels
[NASA-CASE-XGS-05533] c 04 N69-27487Light detection instrument Patent
[NASA-CASE-XGS-05534] c 23 N71-16355Lyophilized reaction mixtures Patent
[NASA-CASE-XGS-05532] c 06 N71-17705Firefly pump-metering system
[NASA-CASE-GSC-10218-1] c 15 N72-21465

Hercules, Inc., Wilmington, Del.

Method of repairing discontinuity in fiberglass structures
[NASA-CASE-LAR-10416-1] c 24 N74-30001

Hoffman Electronics Corp., El Monte, Calif.

Method for producing a solar cell having an integral protective covering
[NASA-CASE-XGS-04531] c 03 N69-24267

Honeywell, Inc., Hopkins, Minn.

Frequency control network for a current feedback oscillator Patent
[NASA-CASE-GSC-10041-1] c 10 N71-19418

Honeywell, Inc., Minneapolis, Minn.

Bus voltage compensation circuit for controlling direct current motor
[NASA-CASE-XMS-04215-1] c 09 N69-39987Apparatus for overcurrent protection of a push-pull amplifier Patent
[NASA-CASE-MSC-12033-1] c 09 N71-13531Static inverter Patent
[NASA-CASE-XGS-05289] c 09 N71-19470High impedance measuring apparatus Patent
[NASA-CASE-XMS-08589-1] c 09 N71-20569Clamping assembly for inertial components Patent
[NASA-CASE-XMS-02184] c 15 N71-20813Piezoelectric pump Patent
[NASA-CASE-XNP-05429] c 26 N71-21824Controllers Patent
[NASA-CASE-XMS-07487] c 15 N71-23255Convoluting device for forming convolutions and the like Patent
[NASA-CASE-XNP-05297] c 15 N71-23811Failure sensing and protection circuit for converter networks Patent
[NASA-CASE-GSC-10114-1] c 10 N71-27366Voice operated controller Patent
[NASA-CASE-XLA-04063] c 31 N71-33160Load current sensor for a series pulse width modulated power supply
[NASA-CASE-GSC-10658-1] c 09 N72-25249Radiant source tracker independent of nonconstant irradiance
[NASA-CASE-NPO-11686] c 14 N73-25462Optical instruments
[NASA-CASE-MSC-14096-1] c 74 N74-15095Method of forming shrink-fit compression seal
[NASA-CASE-LAR-11563-1] c 37 N77-23482

Honeywell, Inc., St. Petersburg, Fla.

Reconfiguring redundancy management
[NASA-CASE-MSC-18498-1] c 60 N82-29013

Houston Univ., Tex.

Analysis of volatile organic compounds
[NASA-CASE-MSC-14428-1] c 23 N77-17161

Howard Univ., Washington, D. C.

Locking mechanism for orthopedic braces
[NASA-CASE-GSC-12082-1] c 54 N76-22914Locking mechanism for orthopedic braces
[NASA-CASE-GSC-12082-2] c 52 N81-25661Cervix-to-rectum measuring device in a radiation applicator for use in the treatment of cervical cancer
[NASA-CASE-GSC-12081-2] c 52 N82-22875

Hughes Aircraft Co., Culver City, Calif.

Varactor high level mixer
[NASA-CASE-XGS-02171] c 09 N69-24324Thermally operated valve Patent
[NASA-CASE-XLE-00815] c 15 N70-35407Thrust dynamometer Patent
[NASA-CASE-XLE-00702] c 14 N70-40203Solid state chemical source for ammonia beam maser Patent
[NASA-CASE-XGS-01504] c 16 N70-41578Canopus detector including automotive gain control of photomultiplier tube Patent
[NASA-CASE-XNP-03914] c 21 N71-10771Horn feed having overlapping apertures Patent
[NASA-CASE-GSC-10452] c 07 N71-12396Deflective rod switch with elastic support and sealing means Patent
[NASA-CASE-XNP-09808] c 09 N71-12518Guidance and maneuver analyzer Patent
[NASA-CASE-XNP-09572] c 14 N71-15621Method of making screen by casting Patent
[NASA-CASE-XLE-00953] c 15 N71-15966Fluid flow control valve Patent
[NASA-CASE-XLE-00703] c 15 N71-15967Low noise single aperture multimode monopulse antenna feed system Patent
[NASA-CASE-XNP-01735] c 07 N71-22750Multilayer porous ionizer Patent
[NASA-CASE-XNP-04338] c 17 N71-23046

Construction and method of arranging a plurality of ion engines to form a cluster Patent
[NASA-CASE-XNP-02923] c 28 N71-23081

Method for fiberizing ceramic materials Patent
[NASA-CASE-XNP-00597] c 18 N71-23088

Inorganic thermal control pigment Patent
[NASA-CASE-XNP-02139] c 18 N71-24184

Triaxial antenna Patent
[NASA-CASE-XNP-02290] c 07 N71-28809

Variable frequency oscillator with temperature compensation Patent
[NASA-CASE-XNP-03916] c 09 N71-28810

High efficiency ionizer assembly Patent
[NASA-CASE-XNP-01954] c 28 N71-28850

Apparatus for changing the orientation and velocity of a spinning body traversing a path Patent
[NASA-CASE-HON-00936] c 31 N71-29050

Fabrication of controlled-porosity metals Patent
[NASA-CASE-XNP-04339] c 17 N71-29137

Ion thruster
[NASA-CASE-LEW-10770-1] c 28 N72-22770

Refractory porcelain enamel passive control coating for high temperature alloys
[NASA-CASE-MFS-22324-1] c 27 N75-27160

Hughes Aircraft Co., Los Angeles, Calif.

Power control circuit
[NASA-CASE-XNP-02713] c 10 N69-39888

Thermal switch Patent
[NASA-CASE-XNP-00463] c 33 N70-36847

Double optic system for ion engine Patent
[NASA-CASE-XNP-02839] c 28 N70-41922

Sample collecting impact bit Patent
[NASA-CASE-XNP-01412] c 15 N70-42034

Bootstrap unloader Patent
[NASA-CASE-XNP-09768] c 09 N71-12516

Difference circuit Patent
[NASA-CASE-XNP-08274] c 10 N71-13537

Gas regulator Patent
[NASA-CASE-NPO-10298] c 12 N71-17661

A dc-coupled noninverting one-shot
[NASA-CASE-XNP-09450] c 10 N71-18723

Phase demodulation system with two phase locked loops Patent
[NASA-CASE-XNP-00777] c 10 N71-19469

High voltage transistor circuit Patent
[NASA-CASE-XNP-06937] c 09 N71-19516

Drift compensation circuit for analog to digital converter Patent
[NASA-CASE-XNP-04780] c 08 N71-19687

System for monitoring the presence of neutrals in a stream of ions Patent
[NASA-CASE-XNP-02592] c 24 N71-20518

Broadband frequency discriminator Patent
[NASA-CASE-NPO-10096] c 07 N71-24583

Flexible, repairable, pottable material for electrical connectors Patent
[NASA-CASE-XGS-05180] c 18 N71-25881

Phase multiplying electronic scanning system Patent
[NASA-CASE-NPO-10302] c 10 N71-26142

Narrow bandwidth video Patent
[NASA-CASE-XMS-06740-1] c 07 N71-26579

Solar panel fabrication Patent
[NASA-CASE-XNP-03413] c 03 N71-26726

Method for removing oxygen impurities from cesium Patent
[NASA-CASE-XNP-04262-2] c 17 N71-26773

Virtual wall slot circularly polarized planar array antenna
[NASA-CASE-NPO-10301] c 07 N72-11148

Conical reflector antenna
[NASA-CASE-NPO-10303] c 07 N72-22127

Injector for use in high voltage isolators for liquid feed lines
[NASA-CASE-NPO-11377] c 15 N73-27406

High efficiency multifrequency feed
[NASA-CASE-GSC-11909] c 32 N74-20863

Thiophenyl ether disiloxanes and trisiloxanes useful as lubricant fluids
[NASA-CASE-MFS-22411-1] c 37 N74-21058

Method and apparatus for optically monitoring the angular position of a rotating mirror
[NASA-CASE-GSC-11353-1] c 74 N74-21304

Gregorian all-reflective optical system
[NASA-CASE-GSC-12058-1] c 74 N77-26942

Opto-mechanical subsystem with temperature compensation through isothermal design
[NASA-CASE-GSC-12059-1] c 35 N77-27366

Wide power range microwave feedback controller
[NASA-CASE-GSC-12146-1] c 33 N78-32340

System for synchronizing synthesizers of communication systems
[NASA-CASE-GSC-12148-1] c 32 N79-20296

Pseudonoise code tracking loop
[NASA-CASE-MSC-18035-1] c 32 N81-15179

Apparatus and method for determining the position of a radiant energy source
[NASA-CASE-GSC-12147-1] c 32 N81-27341

Hughes Helicopters, Culver City, Calif.

Liquid crystal light valve structures
[NASA-CASE-MSC-20036-1] c 76 N84-22457

Hughes Research Labs., Malibu, Calif.

Thrust dynamometer Patent
[NASA-CASE-XLE-05260] c 14 N71-20429

ITT Research Inst., Chicago, Ill.

Spectral method for monitoring atmospheric contamination of inert-gas welding shields Patent
[NASA-CASE-XMF-02039] c 15 N71-15871

Lightweight refractory insulation and method of preparing the same Patent
[NASA-CASE-XMF-05279] c 18 N71-16124

Stabilized zinc oxide coating compositions Patent
[NASA-CASE-XMF-07770-2] c 18 N71-26772

Synthesis of zinc titanate pigment and coatings containing the same
[NASA-CASE-MFS-13532] c 18 N72-17532

Junction range finder
[NASA-CASE-KSC-10108] c 14 N73-25461

Method of preparing zinc orthotitanate pigment
[NASA-CASE-MFS-23345-1] c 27 N77-30237

ILC Technology, Inc., Sunnyvale, Calif.

Direct current ballast circuit for metal halide lamp
[NASA-CASE-MSC-18407-1] c 33 N82-24427

Image Information, Inc., Danbury, Conn.

Recorder/processor apparatus
[NASA-CASE-GSC-11553-1] c 35 N74-15831

Inca Engineering Corp., San Gabriel, Calif.

Apparatus for establishing flow of a fluid mass having a known velocity
[NASA-CASE-MFS-21424-1] c 34 N74-27730

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Method of making a perspiration resistant biopotential electrode
[NASA-CASE-MSC-90153-2] c 05 N72-25120

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Pressed disc type sensing electrodes with ion-screening means Patent
[NASA-CASE-XMS-04212-1] c 05 N71-12346

International Business Machines Corp., Hopewell Junction, N. Y.

Growth of silicon carbide crystals on a seed while pulling silicon crystals from a melt
[NASA-CASE-NPO-13969-1] c 76 N79-23798

International Business Machines Corp., New York.

Electrical connector pin with wiping action
[NASA-CASE-XMF-04238] c 09 N69-39734

Tool attachment for spreading loose elements away from work Patent
[NASA-CASE-XMF-02107] c 15 N71-10809

Redundant memory organization Patent
[NASA-CASE-GSC-10564] c 10 N71-29135

International Business Machines Corp., Poughkeepsie, N. Y.

Method of growing a ribbon crystal particularly suited for facilitating automated control of ribbon width
[NASA-CASE-NPO-14295-1] c 76 N80-32245

International Harvester Co., San Diego, Calif.

Silicide coatings for refractory metals Patent
[NASA-CASE-XLE-10910] c 18 N71-29040

International Laser Systems, Inc., Orlando, Fla.

Active lamp pulse driver circuit
[NASA-CASE-GSC-12566-1] c 33 N83-34189

Laser Resonator
[NASA-CASE-GSC-12565-1] c 36 N84-14509

International Latex Corp., Dover, Del.

Space suit
[NASA-CASE-MSC-12609-1] c 05 N73-32012

Isomet Corp., Palisades Park, N. J.

Metabolic rate meter and method
[NASA-CASE-MSC-12239-1] c 52 N79-21750

ITT Corp., Nutley, N. J.

Time division radio relay synchronizing system using different sync code words for in sync and out of sync conditions Patent
[NASA-CASE-GSC-10373-1] c 07 N71-19773

Tracking receiver Patent
[NASA-CASE-XGS-08679] c 10 N71-21473

Satellite interface synchronization system
[NASA-CASE-GSC-10390-1] c 07 N72-11149

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James and Associates, Lancaster, Calif.

System for providing an integrated display of instantaneous information relative to aircraft attitude, heading, altitude, and horizontal situation
[NASA-CASE-FRC-11005-1] c 06 N82-16075

Jet Propulsion Lab., California Inst. of Tech., Pasadena.

Pressure variable capacitor
[NASA-CASE-XNP-09752] c 14 N69-21541

Rock drill for recovering samples
[NASA-CASE-XNP-07478] c 14 N69-21923

Data compression system
[NASA-CASE-XNP-09785] c 08 N69-21928

Magnetohydrodynamic induction machine
[NASA-CASE-XNP-07481] c 25 N69-21929

Electromechanical actuator
[NASA-CASE-XNP-05975] c 15 N69-23185

Refrigeration apparatus
[NASA-CASE-NPO-10309] c 15 N69-23190

Direct radiation cooling of the collector of linear beam tubes
[NASA-CASE-XNP-09227] c 15 N69-24319

Excitation and detection circuitry for a flux responsive magnetic head
[NASA-CASE-XNP-04183] c 09 N69-24329

Telemetry word forming unit
[NASA-CASE-XNP-09225] c 09 N69-24333

Solid state switch
[NASA-CASE-XNP-09228] c 09 N69-27500

Belleville spring assembly with elastic guides
[NASA-CASE-XNP-09452] c 15 N69-27504

Trifunctional alcohol
[NASA-CASE-NPO-10714] c 06 N69-31244

Plurality of photosensitive cells on a pyramidal base for planetary trackers
[NASA-CASE-XNP-04180] c 07 N69-39736

Coating process
[NASA-CASE-XNP-06508] c 18 N69-39895

Bi-metallic power controlled actuator
[NASA-CASE-XNP-09776] c 09 N69-39929

Piping arrangement through a double chamber structure
[NASA-CASE-XNP-08882] c 15 N69-39935

Micropacked column for a chromatographic system
[NASA-CASE-XNP-04816] c 06 N69-39936

Temperature sensitive capacitor device
[NASA-CASE-XNP-09750] c 14 N69-39937

Thermionic tantalum emitter doped with oxygen Patent Application
[NASA-CASE-NPO-11138] c 03 N70-34646

Data handling system based on source significance, storage availability and data received from the source Patent Application
[NASA-CASE-XNP-04162-1] c 08 N70-34675

Electro-optical scanning apparatus Patent Application
[NASA-CASE-XNP-11106] c 14 N70-34697

Liquid junction and method of fabricating the same Patent Application
[NASA-CASE-NPO-10682] c 15 N70-34699

Helium refining by superfluidity Patent
[NASA-CASE-XNP-00733] c 06 N70-34946

Means and methods of depositing thin films on substrates Patent
[NASA-CASE-XNP-00595] c 15 N70-34967

Photosensitive device to detect bearing deviation Patent
[NASA-CASE-XNP-00438] c 21 N70-35089

Antenna beam-shaping apparatus Patent
[NASA-CASE-XNP-00611] c 09 N70-35219

Temperature-compensating means for cavity resonator of amplifier Patent
[NASA-CASE-XNP-00449] c 14 N70-35220

Parabolic reflector horn feed with spillover correction Patent
[NASA-CASE-XNP-00540] c 09 N70-35382

Means for visually indicating flight paths of vehicles between the Earth, Venus, and Mercury Patent
[NASA-CASE-XNP-00708] c 14 N70-35394

Space vehicle attitude control Patent
[NASA-CASE-XNP-00465] c 21 N70-35395

Binary to binary-coded-decimal converter Patent
[NASA-CASE-XNP-00432] c 08 N70-35423

Cassegrainian antenna subreflector flange for suppressing ground noise Patent
[NASA-CASE-XNP-00683] c 09 N70-35425

Ionization vacuum gauge Patent
[NASA-CASE-XNP-00646] c 14 N70-35666

Two-fluid magnetohydrodynamic system and method for thermal-electric power conversion Patent
[NASA-CASE-XNP-00644] c 03 N70-36803

Mechanical coordinate converter Patent
[NASA-CASE-XNP-00614] c 14 N70-36907

High pressure four-way valve Patent
[NASA-CASE-XNP-00214] c 15 N70-36908

Liquid rocket system Patent [NASA-CASE-XNP-00610]	c 28	N70-36910	Means for generating a sync signal in an FM communication system Patent [NASA-CASE-XNP-10830]	c 07	N71-11281	Automatic fault correction system for parallel signal channels Patent [NASA-CASE-XNP-03263]	c 09	N71-18843
Radar ranging receiver Patent [NASA-CASE-XNP-00748]	c 07	N70-36911	Multi-feed cone cassegrain antenna Patent [NASA-CASE-NPO-10539]	c 07	N71-11285	Data compression processor Patent [NASA-CASE-NPO-10068]	c 08	N71-19288
Attitude control for spacecraft Patent [NASA-CASE-XNP-00294]	c 21	N70-36938	Thermionic diode switch Patent [NASA-CASE-NPO-10404]	c 03	N71-12255	Tape guidance system and apparatus for the provision thereof Patent [NASA-CASE-XNP-09453]	c 08	N71-19420
Elastic universal joint Patent [NASA-CASE-XNP-00416]	c 15	N70-36947	Anti-backlash circuit for hydraulic drive system Patent [NASA-CASE-XNP-01020]	c 03	N71-12260	High voltage transistor circuit Patent [NASA-CASE-XNP-06937]	c 09	N71-19516
Apparatus and method for control of a solid fueled rocket vehicle Patent [NASA-CASE-XNP-00217]	c 28	N70-38181	Binary number sorter Patent [NASA-CASE-NPO-10112]	c 08	N71-12502	Solar cell matrix Patent [NASA-CASE-NPO-10821]	c 03	N71-19545
Expulsion bladder-equipped storage tank structure Patent [NASA-CASE-XNP-00612]	c 11	N70-38182	Linear three-tap feedback shift register Patent [NASA-CASE-NPO-10351]	c 08	N71-12503	Electrical switching device Patent [NASA-CASE-NPO-10037]	c 09	N71-19610
High-voltage cable Patent [NASA-CASE-XNP-00738]	c 09	N70-38201	Binary sequence detector Patent [NASA-CASE-XNP-05415]	c 08	N71-12505	Drift compensation circuit for analog to digital converter Patent [NASA-CASE-XNP-04780]	c 08	N71-19687
Umbilical separator for rockets Patent [NASA-CASE-XNP-00425]	c 11	N70-38202	Data compression system with a minimum time delay unit Patent [NASA-CASE-XNP-08832]	c 08	N71-12506	Roll-up solar array Patent [NASA-CASE-NPO-10188]	c 03	N71-20273
Multiple Belleville spring assembly Patent [NASA-CASE-XNP-00840]	c 15	N70-38225	Magnetic counter Patent [NASA-CASE-XNP-08836]	c 09	N71-12515	Method and device for determining battery state of charge Patent [NASA-CASE-NPO-10194]	c 03	N71-20407
Ignition system for monopropellant combustion devices Patent [NASA-CASE-XNP-00249]	c 28	N70-38249	Operational integrator Patent [NASA-CASE-NPO-10230]	c 09	N71-12520	Soil particles separator, collector and viewer Patent [NASA-CASE-XNP-09770]	c 15	N71-20440
Pressure regulating system Patent [NASA-CASE-XNP-00450]	c 15	N70-38603	Starting circuit for vapor lamps and the like Patent [NASA-CASE-XNP-01058]	c 09	N71-12540	Transmission line thermal short Patent [NASA-CASE-XNP-09775]	c 09	N71-20445
Silt regulated gas journal bearing Patent [NASA-CASE-XNP-00476]	c 15	N70-38620	Matched thermistors for microwave power meters Patent [NASA-CASE-NPO-10348]	c 10	N71-12554	Synchronous servo loop control system Patent [NASA-CASE-XNP-03744]	c 10	N71-20448
Steerable solid propellant rocket motor Patent [NASA-CASE-XNP-00234]	c 28	N70-38645	Micro current measuring device using plural logarithmic response heated filamentary type diodes Patent [NASA-CASE-XNP-00384]	c 09	N71-13530	Processing for producing a sterilized instrument Patent [NASA-CASE-XNP-09763]	c 14	N71-20461
Space simulator Patent [NASA-CASE-XNP-00459]	c 11	N70-38675	Automatic thermal switch Patent [NASA-CASE-XNP-03796]	c 23	N71-15467	Signal-to-noise ratio estimating by taking ratio of mean and standard deviation of integrated signal samples Patent [NASA-CASE-XNP-05254]	c 07	N71-20791
Ejection unit Patent [NASA-CASE-XNP-00876]	c 15	N70-38996	Photoelectric energy spectrometer Patent [NASA-CASE-XNP-04161]	c 14	N71-15599	Elimination of frequency shift in a multiplex communication system Patent [NASA-CASE-XNP-01306]	c 07	N71-20814
Time-division multiplexer Patent [NASA-CASE-XNP-00431]	c 09	N70-38998	Anti-glare improvement for optical imaging systems Patent [NASA-CASE-NPO-10337]	c 14	N71-15604	High power-high voltage waterload Patent [NASA-CASE-XNP-05381]	c 09	N71-20842
Trajectory-correction propulsion system Patent [NASA-CASE-XNP-01104]	c 28	N70-39931	Fluid flow restrictor Patent [NASA-CASE-NPO-10117]	c 15	N71-15608	Coaxial cable connector Patent [NASA-CASE-XNP-04732]	c 09	N71-20851
Electrically-operated rotary shutter Patent [NASA-CASE-XNP-00637]	c 14	N70-40273	High temperature lens construction Patent [NASA-CASE-XNP-04111]	c 14	N71-15622	Soldering with solder flux which leaves corrosion resistant coating Patent [NASA-CASE-XNP-03459]	c 15	N71-21078
Zero gravity starting means for liquid propellant motors Patent [NASA-CASE-XNP-01390]	c 28	N70-41275	Solder flux which leaves corrosion-resistant coating Patent [NASA-CASE-XNP-03459-2]	c 18	N71-15688	Miniature stress transducer Patent [NASA-CASE-XNP-02983]	c 14	N71-21091
Parallel motion suspension device Patent [NASA-CASE-XNP-01567]	c 15	N70-41310	Intermittent type silica gel adsorption refrigerator Patent [NASA-CASE-XNP-00920]	c 15	N71-15906	Holder for crystal resonators Patent [NASA-CASE-XNP-03637]	c 15	N71-21311
Ignition means for monopropellant Patent [NASA-CASE-XNP-00876]	c 28	N70-41311	Dual mode horn antenna Patent [NASA-CASE-XNP-01057]	c 07	N71-15907	Correlation function apparatus Patent [NASA-CASE-XNP-00746]	c 07	N71-21476
Reinforcing means for diaphragms Patent [NASA-CASE-XNP-01962]	c 32	N70-41370	Means for controlling rupture of shock tube diaphragms Patent [NASA-CASE-XAC-00731]	c 11	N71-15960	Split nut separation system Patent [NASA-CASE-XNP-06914]	c 15	N71-21489
High pressure filter Patent [NASA-CASE-XNP-00732]	c 28	N70-41447	Insertion loss measuring apparatus having transformer means connected across a pair of bolometers Patent [NASA-CASE-XNP-01193]	c 10	N71-16057	Light position locating system Patent [NASA-CASE-XNP-01059]	c 23	N71-21821
Phase-locked loop with sideband rejecting properties Patent [NASA-CASE-XNP-02723]	c 07	N70-41680	Polarimeter for transient measurement Patent [NASA-CASE-XNP-08883]	c 23	N71-16101	Electron bombardment ion engine Patent [NASA-CASE-XNP-01424]	c 28	N71-21822
Digital television camera control system Patent [NASA-CASE-XNP-01472]	c 14	N70-41807	Flexible composite membrane Patent [NASA-CASE-XNP-08837]	c 18	N71-16210	Data compressor Patent [NASA-CASE-XNP-04067]	c 08	N71-22707
Antiflutter ball check valve Patent [NASA-CASE-XNP-01152]	c 15	N70-41811	Mount for thermal control system Patent [NASA-CASE-NPO-10138]	c 33	N71-16357	Error correcting method and apparatus Patent [NASA-CASE-XNP-02748]	c 08	N71-22749
Roll attitude star sensor system Patent [NASA-CASE-XNP-01307]	c 21	N70-41856	Optical characteristics measuring apparatus Patent [NASA-CASE-XNP-08840]	c 23	N71-16365	Counter and shift register Patent [NASA-CASE-XNP-01753]	c 08	N71-22897
Process for preparing sterile solid propellants Patent [NASA-CASE-XNP-01749]	c 27	N70-41897	Parallel plate viscometer Patent [NASA-CASE-XNP-09482]	c 14	N71-17584	Friction measuring apparatus Patent [NASA-CASE-XNP-08680]	c 14	N71-22995
Solenoid construction Patent [NASA-CASE-XNP-01951]	c 09	N70-41929	Means and method of measuring viscoelastic strain Patent [NASA-CASE-XNP-01153]	c 32	N71-17645	Hybrid lubrication system and bearing Patent [NASA-CASE-XNP-01841]	c 15	N71-22997
Closed loop ranging system Patent [NASA-CASE-XNP-01501]	c 21	N70-41930	Interferometer direction sensor Patent [NASA-CASE-NPO-10320]	c 14	N71-17655	Filler valve Patent [NASA-CASE-XNP-01747]	c 15	N71-23024
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Millimeter wave radiometer for radio astronomy Patent
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Broadband microwave waveguide window Patent
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Cavity radiometer Patent
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Noninterruptable digital counting system Patent
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Drive circuit for minimizing power consumption in inductive load Patent
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Space simulator Patent
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Process for reducing secondary electron emission Patent
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Minimal logic block encoder Patent
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Dual polarity full wave dc motor drive Patent
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High impact antenna Patent
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Parallel generation of the check bits of a PN sequence Patent
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Phase multiplying electronic scanning system Patent
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Electron beam tube containing a multiple cathode array employing indexing means for cathode substitution Patent
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Fluid phase analyzer Patent
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Variable frequency nuclear magnetic resonance spectrometer Patent
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Time synchronization system utilizing moon reflected coded signals Patent
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Broadband stable power multiplier Patent
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Cascaded complementary pair broadband transistor amplifiers Patent
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Digital memory in which the driving of each word location is controlled by a switch core Patent
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Conically shaped cavity radiometer with a dual purpose cone winding Patent
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Analog signal integration and reconstruction system Patent
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Rapid sync acquisition system Patent
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Cryogenic cooling system Patent
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Vacuum evaporator with electromagnetic ion steering Patent
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Automated fluid chemical analyzer Patent
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Multiducted electromagnetic pump Patent
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Black body cavity radiometer Patent
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Video signal enhancement system with dynamic range compression and modulation index expansion Patent
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Force-balanced, throttle valve Patent
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Digital memory sense amplifying means Patent
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Digital filter for reducing sampling jitter in digital control systems Patent
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[NASA-CASE-NPO-10468] c 23 N71-33229

Encoder/decoder system for a rapidly synchronizable binary code Patent
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A dc servosystem including an ac motor Patent
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Manually actuated heat pump
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Virtual wall slot circularly polarized planar array antenna
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System for controlling the operation of a variable signal device
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Method and apparatus for data compression by a decreasing slope threshold test
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High voltage transistor amplifier with constant current load
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Data compression system
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Digital quasi-exponential function generator
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Current steering commutator
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[NASA-CASE-XMS-05605-1] c 10 N71-19468
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[NASA-CASE-XMS-06497] c 14 N71-26244
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[NASA-CASE-MSC-12293-1] c 14 N72-27411
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[NASA-CASE-MSC-14053-1] c 60 N74-12888
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[NASA-CASE-MSC-14065-1] c 32 N74-26654
Differential phase shift keyed signal resolver
[NASA-CASE-MSC-14066-1] c 33 N74-27705
Method and apparatus for decoding compatible convolutional codes
[NASA-CASE-MSC-14070-1] c 32 N74-32598
Pulse stretcher for narrow pulses
[NASA-CASE-MSC-14130-1] c 33 N74-32711
Peak holding circuit for extremely narrow pulses
[NASA-CASE-MSC-14129-1] c 33 N75-18479
Random pulse generator
[NASA-CASE-MSC-14131-1] c 33 N75-19515
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[NASA-CASE-MSC-14558-1] c 32 N75-21486
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[NASA-CASE-MSC-14557-1] c 32 N76-16249
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[NASA-CASE-MSC-14683-1] c 74 N77-18893

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[NASA-CASE-MSC-14939-1] c 32 N79-11264

Apparatus and method for stabilized phase detection for binary signal tracking loops
[NASA-CASE-MSC-16461-1] c 33 N79-11313

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[NASA-CASE-MSC-18334-1] c 32 N80-32604

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[NASA-CASE-MSC-18255-1] c 74 N80-33210

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[NASA-CASE-GSC-10188-1] c 23 N71-24725

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[NASA-CASE-GSC-10945-1] c 21 N72-31637

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[NASA-CASE-MSC-13972-1] c 52 N74-10975

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[NASA-CASE-MSC-14240-1] c 33 N75-14957

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[NASA-CASE-MSC-14182-1] c 27 N76-14264

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[NASA-CASE-MSC-14180-1] c 52 N76-14757

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[NASA-CASE-MSC-14270-1] c 27 N76-22377

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[NASA-CASE-ARC-10932-1] c 74 N76-22993

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[NASA-CASE-MSC-14270-2] c 27 N76-23426

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[NASA-CASE-MSC-14831-1] c 25 N78-10225

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[NASA-CASE-NPO-14303-1] c 44 N80-18550

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[NASA-CASE-LAR-10208-1] c 35 N76-18400

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[NASA-CASE-FRC-11012-1] c 52 N80-23969

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[NASA-CASE-LAR-10970-1] c 33 N76-14372

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[NASA-CASE-LAR-11224-1] c 37 N76-18456

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[NASA-CASE-MSC-14916-1] c 33 N78-10375

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[NASA-CASE-HQN-10541-2] c 15 N71-27135

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[NASA-CASE-HQN-10541-4] c 16 N71-27183

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[NASA-CASE-HQN-10683] c 14 N71-34389

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[NASA-CASE-HQN-10703] c 21 N73-13643

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[NASA-CASE-HQN-10462] c 25 N75-29192

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[NASA-CASE-XMS-01108] c 15 N69-24322

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[NASA-CASE-XMS-01905] c 12 N71-21089

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[NASA-CASE-XMS-01330] c 37 N75-27376

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[NASA-CASE-NPO-10863] c 06 N70-11251

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[NASA-CASE-MFS-20317] c 15 N73-13463

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[NASA-CASE-MFS-21163-1] c 54 N74-17853

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[NASA-CASE-MFS-21556-1] c 35 N74-26945

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[NASA-CASE-MFS-21680-1] c 18 N74-27397

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[NASA-CASE-MFS-21728-1] c 35 N74-27865

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[NASA-CASE-MFS-21577-1] c 19 N74-29410

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[NASA-CASE-MFS-22073-1] c 33 N75-13139

Vacuum leak detector
[NASA-CASE-LAR-11237-1] c 35 N75-19612

Meter for use in detecting tension in straps having predetermined elastic characteristics
[NASA-CASE-MFS-22189-1] c 35 N75-19615

Latching device
[NASA-CASE-MFS-21606-1] c 37 N75-19685

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[NASA-CASE-MFS-21488-1] c 14 N75-24794

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[NASA-CASE-LAR-13250-1] c 37 N84-20859

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[NASA-CASE-XNP-04264] c 03 N69-21337

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[NASA-CASE-NPO-10862] c 06 N72-22107

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[NASA-CASE-NPO-10863-2] c 06 N72-25152

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[NASA-CASE-NPO-12122-1] c 24 N76-14203

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[NASA-CASE-GSC-11304-1] c 06 N72-21105

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[NASA-CASE-MFS-25786-1] c 76 N83-18533

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[NASA-CASE-NPO-12119-1] c 52 N75-15270

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[NASA-CASE-NPO-14473-1] c 37 N80-23654
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[NASA-CASE-NPO-11948-1] c 33 N74-32712
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[NASA-CASE-GSC-11296-1] c 23 N73-30666
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[NASA-CASE-ARC-10469-1] c 25 N75-12086
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[NASA-CASE-ARC-10643-1] c 25 N75-12087
- Method of forming aperture plate for electron microscope
[NASA-CASE-ARC-10448-2] c 74 N75-12732
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[NASA-CASE-GSC-11746-1] c 36 N75-19654

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[NASA-CASE-MFS-22758-1] c 70 N75-26789
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[NASA-CASE-GSC-11829-1] c 35 N75-27331
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- Self-energized plasma compressor
[NASA-CASE-MFS-22145-2] c 75 N76-17951
- Readout electrode assembly for measuring biological impedance
[NASA-CASE-ARC-10816-1] c 35 N76-24525
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[NASA-CASE-ARC-10448-3] c 35 N77-14408
- Method for making a hot wire anemometer and product thereof
[NASA-CASE-ARC-10900-1] c 35 N77-24454
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[NASA-CASE-GSC-11571-1] c 36 N77-25499
- Method of growing composites of the type exhibiting the Soret effect
[NASA-CASE-MFS-22926-1] c 24 N77-27187
- Method and apparatus for splitting a beam of energy
[NASA-CASE-GSC-12083-1] c 73 N78-32648
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[NASA-CASE-LEW-12569-1] c 37 N79-10418
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[NASA-CASE-ARC-11321-1] c 27 N81-27272
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[NASA-CASE-ARC-11244-1] c 23 N82-16174
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[NASA-CASE-ERC-10307] c 08 N72-21198
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[NASA-CASE-ERC-10119] c 26 N72-21701
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[NASA-CASE-ERC-10222] c 09 N72-22199
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[NASA-CASE-ERC-10392] c 21 N73-14692
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[NASA-CASE-HQN-10844-1] c 36 N75-19653
- Physical correction filter for improving the optical quality of an image
[NASA-CASE-HQN-10542-1] c 74 N75-25706
- Folding structure fabricated of rigid panels
[NASA-CASE-XHQ-02146] c 18 N75-27040
- Traveling wave solid state amplifier utilizing a semiconductor with negative differential mobility
[NASA-CASE-HQN-10069] c 33 N75-27251
- Vapor deposition apparatus
[NASA-CASE-HQN-10462] c 25 N75-29192
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[NASA-CASE-HQN-10876-1] c 33 N76-27473
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[NASA-CASE-HQN-10862-1] c 44 N76-29699
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Adjustable high emittance gap filler
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Test apparatus for locating shorts during assembly of electrical buses
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Spray coating apparatus having a rotatable workpiece holder
[NASA-CASE-ARC-11110-1] c 37 N82-24492

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Preparation of perfluorinated 1,2,4-oxadiazoles
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Method for the preparation of thin-skinned asymmetric reverse osmosis membranes and products thereof
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Method of tracing contour patterns for use in making gradual contour resin matrix composites
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Portable device for use in starting air-start-units for aircraft and having cable lead testing capability
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System for use in conducting wake investigation for a wing in flight
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[NASA-CASE-FRC-11005-1] c 06 N82-16075

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[NASA-CASE-FRC-11026-1] c 24 N82-24296

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[NASA-CASE-FRC-11025-1] c 33 N82-24417

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[NASA-CASE-FRC-11058-1] c 85 N82-33288

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[NASA-CASE-FRC-11072-1] c 05 N83-27975

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[NASA-CASE-ERC-10187] c 16 N69-31343

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[NASA-CASE-ERC-10072] c 09 N70-11148

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[NASA-CASE-ERC-10034] c 15 N71-24896

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[NASA-CASE-ERC-10020] c 16 N71-26154

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[NASA-CASE-ERC-10065] c 09 N71-27364

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[NASA-CASE-ERC-10097] c 15 N71-28465

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Orifice gross leak tester Patent
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[NASA-CASE-XER-11203] c 14 N71-28994

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[NASA-CASE-ERC-10011] c 07 N71-29065

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[NASA-CASE-ERC-10151] c 16 N71-29131

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[NASA-CASE-ERC-10248] c 14 N72-17323

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[NASA-CASE-ERC-10267] c 09 N72-23173

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[NASA-CASE-ERC-10015-2] c 10 N72-27246

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[NASA-CASE-XGS-04227] c 15 N71-21744

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[NASA-CASE-XGS-02630] c 03 N71-22974

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[NASA-CASE-XGS-03304] c 09 N71-22988

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[NASA-CASE-XGS-10123] c 14 N71-22992

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[NASA-CASE-XGS-01331] c 14 N71-22996

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[NASA-CASE-XGS-02607] c 31 N71-23009

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[NASA-CASE-XGS-02751] c 09 N71-23015

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[NASA-CASE-XGS-02610] c 14 N71-23174

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[NASA-CASE-XGS-03390] c 03 N71-23187

Passive synchronized spike generator with high input impedance and low output impedance and capacitor power supply Patent
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Resettable monostable pulse generator Patent
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Combustion products generating and metering device
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Helical recorder arrangement for multiple channel recording on both sides of the tape
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Roll alignment detector
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Separator for alkaline electric cells and method of making [NASA-CASE-GSC-10017-1]	c 44	N82-24643	High stability amplifier [NASA-CASE-GSC-12646-1]	c 33	N83-34191	Gravity stabilized flying vehicle Patent [NASA-CASE-MSC-12111-1]	c 02	N71-11039
Separator for alkaline electric batteries and method of making [NASA-CASE-GSC-10018-1]	c 44	N82-24644	Magnetic bearing and motor [NASA-CASE-GSC-12726-1]	c 37	N83-34323	Helmet assembly and latch means therefor Patent [NASA-CASE-XMS-04935]	c 05	N71-11190
Alkaline electrochemical cells and method of making [NASA-CASE-GSC-10349-1]	c 44	N82-24645	Automatic oscillator frequency control system [NASA-CASE-GSC-12804-1]	c 33	N83-35228	Pressure suit tie-down mechanism Patent [NASA-CASE-XMS-00784]	c 05	N71-12335
Imaging X-ray spectrometer [NASA-CASE-GSC-12682-1]	c 35	N82-26629	Heat pipe thermal switch [NASA-CASE-GSC-12812-1]	c 34	N83-35307	Hand-held self-manuevering unit Patent [NASA-CASE-XMS-05304]	c 05	N71-12336
Apparatus for disintegrating kidney stones [NASA-CASE-GSC-12652-1]	c 52	N82-26961	Focal axis resolver for offset reflector antennas [NASA-CASE-GSC-12630-1]	c 33	N83-36355	Pressure garment joint Patent [NASA-CASE-XMS-09636]	c 05	N71-12344
Aqueous alkali metal hydroxide insoluble cellulose ether membrane [NASA-CASE-XGS-05584-1]	c 25	N82-29370	High speed multi focal plane optical system [NASA-CASE-GSC-12683-1]	c 74	N83-36898	Emergency escape system Patent [NASA-CASE-MSC-12086-1]	c 05	N71-12345
Method of an apparatus for measuring temperature and pressure [NASA-CASE-GSC-12558-1]	c 35	N82-29580	Real-time 3-D X-ray and gamma-ray viewer [NASA-CASE-GSC-12640-1]	c 74	N84-11920	Dynamic Doppler simulator Patent [NASA-CASE-XMS-05454-1]	c 07	N71-12391
Workpiece positioning vise [NASA-CASE-GSC-12762-1]	c 37	N82-29604	Holding fixture for a hot stamping press [NASA-CASE-GSC-12619-1]	c 37	N84-12491	Electrical load protection device Patent [NASA-CASE-MSC-12135-1]	c 09	N71-12526
Implantable electrical device [NASA-CASE-GSC-12560-1]	c 52	N82-29863	Unidirectional flexural pivot [NASA-CASE-GSC-12622-1]	c 37	N84-12492	High voltage pulse generator Patent [NASA-CASE-MSC-12178-1]	c 09	N71-13518
Low intensity X-ray and gamma-ray spectrometer [NASA-CASE-GSC-12587-1]	c 35	N82-32659	Tuned analog network [NASA-CASE-GSC-12650-1]	c 33	N84-14421	Process for conditioning tanned sharkskin and articles made therefrom Patent [NASA-CASE-XMS-09891-1]	c 18	N71-15545
Crystal cleaving machine [NASA-CASE-GSC-12584-1]	c 37	N82-32730	Thermal control system [NASA-CASE-GSC-12771-1]	c 34	N84-14461	Ablation structures Patent [NASA-CASE-XMS-01816]	c 33	N71-15623
Multiprism collimator [NASA-CASE-GSC-12608-1]	c 74	N83-10900	Laser Resonator [NASA-CASE-GSC-12565-1]	c 36	N84-14509	Fluid power transmission Patent [NASA-CASE-XMS-01445]	c 12	N71-16031
Reciprocating linear motor [NASA-CASE-GSC-12773-1]	c 33	N83-12332	Optical multiple sample vacuum integrating sphere [NASA-CASE-GSC-12849-1]	c 74	N84-15960	Spacecraft radiator cover Patent [NASA-CASE-MSC-12049]	c 31	N71-16080
Reactanceless bandpass amplifier [NASA-CASE-GSC-12788-1]	c 33	N83-12333	High stability buffered phase comparator [NASA-CASE-GSC-12645-1]	c 33	N84-16454	Method of improving heat transfer characteristics in a nucleate boiling process Patent [NASA-CASE-XMS-04268]	c 33	N71-16277
Tool for releasing optical elements [NASA-CASE-GSC-12794-1]	c 37	N83-12434	Method of coating a substrate with a rapidly solidified metal [NASA-CASE-GSC-12880-1]	c 26	N84-20670	Heated element fluid flow sensor Patent [NASA-CASE-MSC-12084-1]	c 12	N71-17569
Integrated photo-responsive metal oxide semiconductor circuit [NASA-CASE-GSC-12782-1]	c 33	N83-13360	National Aeronautics and Space Administration. Lyndon B. Johnson Space Center, Houston, Tex.			Biological isolation garment Patent [NASA-CASE-MSC-12206-1]	c 05	N71-17599
Procedure for internally mounting strain gauges [NASA-CASE-GSC-12824-1]	c 35	N83-13424	Coupling device [NASA-CASE-XMS-07846-1]	c 09	N69-21927	Metal valve pinlike with encapsulated elastomeric body Patent [NASA-CASE-MSC-12116-1]	c 15	N71-17648
Portable pallet weight apparatus [NASA-CASE-GSC-12789-1]	c 35	N83-13425	Flow test device [NASA-CASE-XMS-04917]	c 14	N69-24257	Method for forming plastic materials Patent [NASA-CASE-XMS-05516]	c 15	N71-17803
Linear magnetic bearings [NASA-CASE-GSC-12582-2]	c 37	N83-13460	Visual target for retrofire attitude control [NASA-CASE-XMS-12158-1]	c 31	N69-27499	Flexible blade antenna Patent [NASA-CASE-MSC-12101]	c 09	N71-18720
Optical distance measuring instrument [US-PATENT-APPL-SN-406820]	c 74	N83-13982	System for monitoring signal amplitude ranges [NASA-CASE-XMS-04061-1]	c 09	N69-39885	Space suit heat exchanger Patent [NASA-CASE-XMS-09571]	c 05	N71-19439
Cerenkov radiator material and charged particle detection process [NASA-CASE-GSC-12805-1]	c 72	N83-18423	Amplifier drift tester [NASA-CASE-XMS-05562-1]	c 09	N69-39986	Light intensity modulator controller Patent [NASA-CASE-XMS-04300]	c 09	N71-19479
The 3-dimensional and tomographic imaging device for X-ray and gamma-ray emitting objects [NASA-CASE-GSC-12851-1]	c 35	N83-20083	System for improving signal-to-noise ratio of a communication signal Patent Application [NASA-CASE-MSC-12259-1]	c 07	N70-12616	Solar optical telescope dome control system Patent [NASA-CASE-MSC-10966]	c 14	N71-19568
Temperature averaging thermal probe [NASA-CASE-GSC-12795-1]	c 35	N83-20085	Two-step rocket engine bipropellant valve Patent [NASA-CASE-XMS-04890-1]	c 15	N70-22192	Subgravity simulator Patent [NASA-CASE-XMS-04798]	c 11	N71-21474
Magnetically actuated compressor [NASA-CASE-GSC-12799-1]	c 37	N83-20153	Heat shield Patent [NASA-CASE-XMS-00486]	c 33	N70-33344	Shock absorber Patent [NASA-CASE-XMS-03722]	c 15	N71-21530
Method and apparatus for mapping the distribution of chemical elements in an extended medium [NASA-CASE-GSC-12808-1]	c 45	N83-20446	Life raft Patent [NASA-CASE-XMS-00863]	c 05	N70-34857	Apparatus for machining geometric cones Patent [NASA-CASE-XMS-04292]	c 15	N71-22722
Massively parallel processor computer [NASA-CASE-GSC-12223-1]	c 60	N83-25378	Shock absorbing support and restraint means Patent [NASA-CASE-XMS-01240]	c 05	N70-35152	Rescue litter flotation assembly Patent [NASA-CASE-XMS-04170]	c 05	N71-22748
Variable speed drive [NASA-CASE-GSC-12643-1]	c 37	N83-26078	Energy absorbing structure Patent Application [NASA-CASE-MSC-12279-1]	c 15	N70-35679	Aligning and positioning device Patent [NASA-CASE-XMS-04178]	c 15	N71-22798
Method for milling and drilling glass [NASA-CASE-GSC-12636-1]	c 31	N83-27058	Bonded solid lubricant coating Patent [NASA-CASE-XMS-00259]	c 18	N70-36400	Tension measurement device Patent [NASA-CASE-XMS-04545]	c 15	N71-22878
Rapid, quantitative determination of bacteria in water [NASA-CASE-GSC-12158-1]	c 51	N83-27569	Life preserver Patent [NASA-CASE-XMS-00864]	c 05	N70-36493	Amplitude modulated laser transmitter Patent [NASA-CASE-XMS-04269]	c 16	N71-22895
Method of damping nutation motion with minimum spin axis attitude disturbance [NASA-CASE-GSC-12551-1]	c 18	N83-28064	Resuscitation apparatus Patent [NASA-CASE-XMS-01115]	c 05	N70-39922	Digital cardiotelemetry system Patent [NASA-CASE-XMS-02399]	c 05	N71-22896
Automatic thermal switch [NASA-CASE-GSC-12553-1]	c 34	N83-28356	Inflatable radar reflector unit Patent [NASA-CASE-XMS-00893]	c 07	N70-40063	Phonocardiograph transducer Patent [NASA-CASE-XMS-05365]	c 14	N71-22993
Memory-based parallel data output controller [NASA-CASE-GSC-12447-2]	c 17	N83-29302	Measuring device Patent [NASA-CASE-XMS-01546]	c 14	N70-40233	Multiple environment materials test chamber having a multiple port X-ray tube for irradiating a plurality of samples Patent [NASA-CASE-XMS-02930]	c 11	N71-23042
Cooling by conversion of para to ortho-hydrogen [NASA-CASE-GSC-12770-1]	c 25	N83-29324	Liquid-gas separator for zero gravity environment Patent [NASA-CASE-XMS-01492]	c 05	N70-41297	Soft frame adjustable eyeglasses Patent [NASA-CASE-XMS-06064]	c 05	N71-23096
High voltage isolation transformer [NASA-CASE-GSC-12817-1]	c 33	N83-29590	Instrument for use in performing a controlled Valsalva maneuver Patent [NASA-CASE-XMS-01615]	c 05	N70-41329	Blood pressure measuring system for separating and separately recording dc signal and an ac signal Patent [NASA-CASE-XMS-06061]	c 05	N71-23317
			Radial module space station Patent [NASA-CASE-XMS-01906]	c 31	N70-41373	Signal ratio system utilizing voltage controlled oscillators Patent [NASA-CASE-XMF-04367]	c 09	N71-23545
			Hypersonic reentry vehicle Patent [NASA-CASE-XMS-04142]	c 31	N70-41631	Winch having cable position and load indicators Patent [NASA-CASE-MSC-12052-1]	c 15	N71-24599
			Angular accelerometer Patent [NASA-CASE-XMS-05938]	c 14	N70-41682			
			Indexed keyed connection Patent [NASA-CASE-XMS-02532]	c 15	N70-41808			

Radar antenna system for acquisition and tracking Patent				Pulse code modulated signal synchronizer			Two-component ceramic coating for silica insulation		
[NASA-CASE-XMS-09610]	c 07	N71-24625		[NASA-CASE-MSC-12462-1]	c 32	N74-20809	[NASA-CASE-MSC-14270-1]	c 27	N78-22377
Extravehicular tunnel suit system Patent				Pulse code modulated signal synchronizer			Three-component ceramic coating for silica insulation		
[NASA-CASE-MSC-12243-1]	c 05	N71-24728		[NASA-CASE-MSC-12494-1]	c 32	N74-20810	[NASA-CASE-MSC-14270-2]	c 27	N78-23426
Broadband modified turnstile antenna Patent				Apparatus and method for processing Korotkov sounds			Binary concatenated coding system		
[NASA-CASE-MSC-12209]	c 09	N71-24842		[NASA-CASE-MSC-13999-1]	c 52	N74-26626	[NASA-CASE-MSC-14082-1]	c 60	N76-23850
Quick release hook tape Patent				Differential phase shift keyed communication system			Non-flammable elastomeric fiber from a fluorinated elastomer and containing an halogenated flame retardant		
[NASA-CASE-XMS-10660-1]	c 15	N71-25975		[NASA-CASE-MSC-14065-1]	c 32	N74-26654	[NASA-CASE-MSC-14331-1]	c 27	N76-24405
Plated electrodes Patent				Technique for recovery of voice data from heat damaged magnetic tape			Self-contained breathing apparatus		
[NASA-CASE-XMS-04213-1]	c 09	N71-26002		[NASA-CASE-MSC-14219-1]	c 32	N74-27612	[NASA-CASE-MSC-14733-1]	c 54	N76-24900
Audio signal processor Patent				Differential phase shift keyed signal resolver			Sun angle calculator		
[NASA-CASE-MSC-12223-1]	c 07	N71-26181		[NASA-CASE-MSC-14066-1]	c 33	N74-27705	[NASA-CASE-MSC-12617-1]	c 35	N76-29552
Fabric for micrometeoroid protection garment Patent				Specific wavelength colorimeter			Meteoroid capture cell construction		
[NASA-CASE-MSC-12109]	c 18	N71-26285		[NASA-CASE-MSC-14081-1]	c 35	N74-27860	[NASA-CASE-MSC-12423-1]	c 91	N76-30131
Antenna array phase quadrature tracking system Patent				Latch mechanism			Flanged major modular assembly jig		
[NASA-CASE-MSC-12205-1]	c 07	N71-27056		[NASA-CASE-MSC-12549-1]	c 37	N74-27903	[NASA-CASE-MSC-19372-1]	c 39	N76-31562
Radiometric temperature reference Patent				Digital communication system			Optical noise suppression device and method		
[NASA-CASE-MSC-13276-1]	c 14	N71-27058		[NASA-CASE-MSC-13912-1]	c 32	N74-30524	[NASA-CASE-MSC-12640-1]	c 74	N76-31998
Pneumatic amplifier Patent				Flexible joint for pressurizable garment			Optical process for producing classification maps from multispectral data		
[NASA-CASE-MSC-12121-1]	c 15	N71-27147		[NASA-CASE-MSC-11072]	c 54	N74-32546	[NASA-CASE-MSC-14472-1]	c 43	N77-10584
Orbital escape device Patent				Method and apparatus for decoding compatible convolutional codes			Window defect planar mapping technique		
[NASA-CASE-XMS-06162]	c 31	N71-28851		[NASA-CASE-MSC-14070-1]	c 32	N74-32598	[NASA-CASE-MSC-19442-1]	c 74	N77-10899
Inflatable tether Patent				Pulse stretcher for narrow pulses			Differential pulse code modulation		
[NASA-CASE-MSC-10993]	c 15	N71-28936		[NASA-CASE-MSC-14130-1]	c 33	N74-32711	[NASA-CASE-MSC-12506-1]	c 32	N77-12239
Ion-exchange membrane with platinum electrode assembly Patent				Method and device for detection of surface discontinuities or defects			Method and system for in vivo measurement of bone tissue using a two level energy source		
[NASA-CASE-XMS-02063]	c 03	N71-29044		[NASA-CASE-MSC-14187-1]	c 35	N74-32879	[NASA-CASE-MSC-14276-1]	c 52	N77-14737
Color television system				Anti-fog composition			Analysis of volatile organic compounds		
[NASA-CASE-MSC-12146-1]	c 07	N72-17109		[NASA-CASE-MSC-13530-2]	c 23	N75-14834	[NASA-CASE-MSC-14428-1]	c 23	N77-17161
Current dependent filter inductance				Four phase logic systems			System for producing chroma signals		
[NASA-CASE-ERC-10139]	c 09	N72-17154		[NASA-CASE-MSC-14240-1]	c 33	N75-14957	[NASA-CASE-MSC-14683-1]	c 74	N77-18893
Low onset rate energy absorber				Peak holding circuit for extremely narrow pulses			Fluid mass sensor for a zero gravity environment		
[NASA-CASE-MSC-12279]	c 15	N72-17450		[NASA-CASE-MSC-14129-1]	c 33	N75-18479	[NASA-CASE-MSC-14653-1]	c 35	N77-19385
Stand-off type ablative heat shield				Random pulse generator			Mechanical sequencer		
[NASA-CASE-MSC-12143-1]	c 33	N72-17947		[NASA-CASE-MSC-14131-1]	c 33	N75-19515	[NASA-CASE-MSC-19536-1]	c 37	N77-22482
Optical range finder having nonoverlapping complete images				Grain refinement control in TIG arc welding			Unbalanced quadriphase demodulator		
[NASA-CASE-MSC-12105-1]	c 14	N72-21409		[NASA-CASE-MSC-19095-1]	c 37	N75-19683	[NASA-CASE-MSC-14840-1]	c 32	N77-24331
Open type urine receptacle				Condensate removal device for heat exchanger			Open loop digital frequency multiplier		
[NASA-CASE-MSC-12324-1]	c 05	N72-22093		[NASA-CASE-MSC-14143-1]	c 77	N75-20139	[NASA-CASE-MSC-12709-1]	c 33	N77-24375
Family of frequency to amplitude converters				Television noise reduction device			Platinum resistance thermometer circuit		
[NASA-CASE-MSC-12395]	c 09	N72-25257		[NASA-CASE-MSC-12607-1]	c 32	N75-21485	[NASA-CASE-MSC-12327-1]	c 35	N77-27368
Foldable construction block				Digital transmitter for data bus communications system			Surface finishing		
[NASA-CASE-MSC-12233-1]	c 15	N72-25454		[NASA-CASE-MSC-14558-1]	c 32	N75-21486	[NASA-CASE-MSC-12631-1]	c 24	N77-28225
Method and apparatus for detecting surface ions on silicon diodes and transistors				Insulated electrocardiographic electrodes			Pressure modulating valve		
[NASA-CASE-ERC-10325]	c 15	N72-25457		[NASA-CASE-MSC-14339-1]	c 05	N75-24716	[NASA-CASE-MSC-14905-1]	c 37	N77-28487
Scientific experiment flexible mount				Variable ratio mixed-mode bilateral master-slave control system for shuttle remote manipulator system			Snap-in compressible biomedical electrode		
[NASA-CASE-MSC-12372-1]	c 31	N72-25842		[NASA-CASE-MSC-14245-1]	c 18	N75-27041	[NASA-CASE-MSC-14623-1]	c 52	N77-28717
Burn rate testing apparatus				Multiple circuit protector device			Load regulating latch		
[NASA-CASE-XMS-09690]	c 33	N72-25913		[NASA-CASE-XMS-02744]	c 33	N75-27249	[NASA-CASE-MSC-19535-1]	c 37	N77-32499
System for improving signal-to-noise ratio of a communication signal				Apparatus for welding sheet material			Regenerable device for scrubbing breathable air of CO ₂ and moisture without special heat exchanger equipment		
[NASA-CASE-MSC-12259-2]	c 07	N72-33146		[NASA-CASE-XMS-01330]	c 37	N75-27376	[NASA-CASE-MSC-14771-1]	c 54	N77-32722
Altitude measuring system				Multiparameter vision testing apparatus			Process of forming catalytic surfaces for wet oxidation reactions		
[NASA-CASE-ERC-10412-1]	c 09	N73-12211		[NASA-CASE-MSC-13601-2]	c 54	N75-27759	[NASA-CASE-MSC-14831-1]	c 25	N78-10225
A method of delivering a vehicle to earth orbit and returning the reusable portion thereof to earth				Thrust measurement			Hearing aid malfunction detection system		
[NASA-CASE-MSC-12391]	c 30	N73-12884		[NASA-CASE-XMS-05731]	c 35	N75-29382	[NASA-CASE-MSC-14918-1]	c 33	N78-10375
Multispectral imaging system				Fault tolerant clock apparatus utilizing a controlled minority of clock elements			Gas compression apparatus		
[NASA-CASE-MSC-12404-1]	c 23	N73-13661		[NASA-CASE-MSC-12531-1]	c 35	N75-30504	[NASA-CASE-MSC-14757-1]	c 35	N78-10428
Foldable construction block				Filter regeneration systems			Low gravity phase separator		
[NASA-CASE-MSC-12232-2]	c 32	N73-13921		[NASA-CASE-MSC-14273-1]	c 34	N75-33342	[NASA-CASE-MSC-14773-1]	c 35	N78-12390
Space shuttle vehicle and system				Spacecraft docking and alignment system			Iodine generator for reclaimed water purification		
[NASA-CASE-MSC-12433]	c 31	N73-14854		[NASA-CASE-MSC-12559-1]	c 18	N76-14186	[NASA-CASE-MSC-14632-1]	c 54	N78-14784
Apparatus for statistical time-series analysis of electrical signals				Reconstituted asbestos matrix			Flame retardant spandex type polyurethanes		
[NASA-CASE-MSC-12428-1]	c 10	N73-25240		[NASA-CASE-MSC-12568-1]	c 24	N76-14204	[NASA-CASE-MSC-14331-2]	c 27	N78-17213
Life raft stabilizer				Strain arrestor plate for fused silica tile			Temperature compensated current source		
[NASA-CASE-MSC-12393-1]	c 02	N73-26006		[NASA-CASE-MSC-14182-1]	c 27	N76-14264	[NASA-CASE-MSC-11235]	c 33	N78-17294
On-film optical recording of camera lens settings				Medical subject monitoring systems			Microbalance		
[NASA-CASE-MSC-12363-1]	c 14	N73-26431		[NASA-CASE-MSC-14180-1]	c 52	N76-14757	[NASA-CASE-MSC-11242]	c 35	N78-17358
Powerplexer				Automatic bio waste sampling			Adjustable securing base		
[NASA-CASE-MSC-12396-1]	c 03	N73-31988		[NASA-CASE-MSC-14640-1]	c 54	N76-14804	[NASA-CASE-MSC-19866-1]	c 37	N78-17383
Foot pedal operated fluid type exercising device				Method for manufacturing mirrors in zero gravity environment			Restraining mechanism		
[NASA-CASE-MSC-11561-1]	c 05	N73-32014		[NASA-CASE-MSC-12611-1]	c 12	N76-15189	[NASA-CASE-MSC-13054]	c 54	N78-17677
Digital to analog conversion apparatus				Cosmic dust analyzer			Helmet latching and attaching ring		
[NASA-CASE-MSC-12458-1]	c 08	N73-32081		[NASA-CASE-MSC-13802-2]	c 35	N76-15431	[NASA-CASE-XMS-04670]	c 54	N78-17678
Solid state controller three axes controller				Low distortion receiver for bi-level baseband PCM waveforms			Protective garment ventilation system		
[NASA-CASE-MSC-12394-1]	c 08	N74-10942		[NASA-CASE-MSC-14557-1]	c 32	N76-16249	[NASA-CASE-XMS-09653]	c 54	N78-17680
Method for obtaining oxygen from lunar or similar soil				Frequency measurement by coincidence detection with standard frequency			Optical conversion method		
[NASA-CASE-MSC-12408-1]	c 46	N74-13011		[NASA-CASE-MSC-14649-1]	c 33	N76-16331	[NASA-CASE-MSC-12618-1]	c 74	N78-17865
Adaptive voting computer system				Space vehicle system			Emergency space-suit helmet		
[NASA-CASE-MSC-13932-1]	c 62	N74-14920		[NASA-CASE-MSC-12561-1]	c 18	N76-17185	[NASA-CASE-MSC-10954-1]	c 54	N78-18761
Phase protection system for ac power lines				Method of fluxless brazing and diffusion bonding of aluminum containing components			Method of producing complex aluminum alloy parts of high temper, and products thereof		
[NASA-CASE-MSC-17832-1]	c 33	N74-14956		[NASA-CASE-MSC-14435-1]	c 37	N76-18455	[NASA-CASE-MSC-19693-1]	c 26	N78-24333
Optical instruments				Auger attachment method for insulation			Stator rotor tools		
[NASA-CASE-MSC-14096-1]	c 74	N74-15095		[NASA-CASE-MSC-12615-1]	c 37	N76-19437	[NASA-CASE-MSC-16000-1]	c 37	N78-24544
Multifunction audio digitizer				Position determination systems			Flexible pile thermal barrier insulator		
[NASA-CASE-MSC-13855-1]	c 35	N74-17885		[NASA-CASE-MSC-12593-1]	c 17	N76-21250	[NASA-CASE-MSC-19568-1]	c 34	N78-25350
Method and apparatus for stable silicon dioxide layers on silicon grown in silicon nitride ambient							Fluid valve assembly		
[NASA-CASE-ERC-10073-1]	c 24	N74-19769					[NASA-CASE-MSC-12731-1]	c 37	N78-25426

Variable contour securing system [NASA-CASE-MSC-16270-1]	c 37	N78-27423	Cell and method for electrolysis of water and anode [NASA-CASE-MSC-16394-1]	c 28	N81-24280	Kinesimetric method and apparatus [NASA-CASE-MSC-18929-1]	c 39	N83-20280
Urine collection device [NASA-CASE-MSC-16433-1]	c 52	N78-27750	Urine collection device [NASA-CASE-MSC-16433-1]	c 52	N81-24711	Compression test apparatus [NASA-CASE-MSC-18723-1]	c 35	N83-21312
Multi-purpose wind tunnel reaction control model block [NASA-CASE-MSC-19706-1]	c 09	N78-31129	Apparatus for fiber optic liquid level sensing [NASA-CASE-MSC-18674-1]	c 74	N81-24907	Bio-medical flow sensor [NASA-CASE-MSC-18761-1]	c 52	N83-27577
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[NASA-CASE-XLA-11028-1]	c 24	N74-27035	[NASA-CASE-LAR-11263-1]	c 35	[NASA-CASE-LAR-10773-3]	c 51 N77-25769
Rocket having barium release system to create ion clouds in the upper atmosphere			Annular momentum control device used for stabilization of space vehicles and the like		Electro-mechanical sine/cosine generator	
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[NASA-CASE-LAR-10416-1]	c 24	N74-30001	[NASA-CASE-LAR-11552-1]	c 35	[NASA-CASE-LAR-11310-1]	c 07 N77-28118
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[NASA-CASE-LAR-11141-1]	c 07	N74-32418	[NASA-CASE-LAR-10799-2]	c 34	[NASA-CASE-LAR-12009-1]	c 44 N78-15560
Measuring probe position recorder			Stack plume visualization system		Transmitting and reflecting diffuser	
[NASA-CASE-LAR-10806-1]	c 35	N74-32877	[NASA-CASE-LAR-11675-1]	c 45	[NASA-CASE-LAR-10385-3]	c 74 N78-15879
Stagnation pressure probe			Cascade plug nozzle		TV fatigue crack monitoring system	
[NASA-CASE-LAR-11139-1]	c 35	N74-32878	[NASA-CASE-LAR-11674-1]	c 07	[NASA-CASE-LAR-11490-1]	c 39 N78-16387
Molding apparatus			Exhaust flow deflector		Method of making a composite sandwich lattice structure	
[NASA-CASE-LAR-10489-2]	c 31	N74-32920	[NASA-CASE-LAR-11570-1]	c 34	[NASA-CASE-LAR-11898-2]	c 24 N78-17149
Remote fire stack igniter			Method and apparatus for tensile testing of metal foil		Composite lamination method	
[NASA-CASE-MFS-21675-1]	c 25	N74-33378	[NASA-CASE-LAR-10208-1]	c 35	[NASA-CASE-LAR-12019-1]	c 24 N78-17150
Open tube guideway for high speed air cushioned vehicles			Method and apparatus for fluffing, separating, and cleaning fibers		Polyimide adhesives	
[NASA-CASE-LAR-10258-1]	c 85	N74-34672	[NASA-CASE-LAR-11224-1]	c 37	[NASA-CASE-LAR-12181-1]	c 27 N78-17205
Fast scan control for deflection type mass spectrometers			Therapeutic hand exerciser		Thermal shock and erosion resistant tantalum carbide ceramic material	
[NASA-CASE-LAR-11428-1]	c 35	N74-34857	[NASA-CASE-LAR-11667-1]	c 52	[NASA-CASE-LAR-11902-1]	c 27 N78-17206
Apparatus for microbiological sampling			Magnetic heading reference		Optical scanner	
[NASA-CASE-LAR-11069-1]	c 35	N75-12272	[NASA-CASE-LAR-11387-1]	c 04	[NASA-CASE-LAR-11711-1]	c 74 N78-17866
Method of making an explosively welded scarf joint			Apparatus for positioning modular components on a vertical or overhead surface		Molded composite pyrogen igniter for rocket motors	
[NASA-CASE-LAR-11211-1]	c 37	N75-12326	[NASA-CASE-LAR-11465-1]	c 37	[NASA-CASE-LAR-12018-1]	c 20 N78-24275
Determining particle density using known material Hugoniot curves			Airfoil shape for flight at subsonic speeds		Non-destructive method for applying and removing instrumentation on helicopter rotor blades	
[NASA-CASE-LAR-11059-1]	c 76	N75-12810	[NASA-CASE-LAR-10585-1]	c 02	[NASA-CASE-LAR-11201-1]	c 35 N78-24515
Method for making conductors for ferrite memory arrays			Particulate and aerosol detector		Two dimensional wedge/translating shroud nozzle	
[NASA-CASE-LAR-10994-1]	c 24	N75-13032	[NASA-CASE-LAR-11434-1]	c 35	[NASA-CASE-LAR-11819-1]	c 07 N78-27121
Evacuated, displacement compression mold			High temperature strain gage calibration fixture		Remote water monitoring system	
[NASA-CASE-LAR-10782-2]	c 31	N75-13111	[NASA-CASE-LAR-11500-1]	c 35	[NASA-CASE-LAR-11973-1]	c 35 N78-27384
Automatic inoculating apparatus			Vacuum pressure molding technique		Magnetic suspension and pointing system	
[NASA-CASE-LAR-11074-1]	c 51	N75-13502	[NASA-CASE-LAR-10073-1]	c 37	[NASA-CASE-LAR-11889-2]	c 37 N78-27424
Automatic focus control for facsimile cameras			Instrumentation for measuring aircraft noise and sonic boom		Device for measuring the contour of a surface	
[NASA-CASE-LAR-11213-1]	c 35	N75-15014	[NASA-CASE-LAR-11476-1]	c 07	[NASA-CASE-LAR-11869-1]	c 74 N78-27904
Kinesthetic control simulator			Connector		Supersonic transport	
[NASA-CASE-LAR-10276-1]	c 09	N75-15662	[NASA-CASE-LAR-11709-1]	c 37	[NASA-CASE-LAR-11932-1]	c 05 N78-32086
Electrostatic measurement system			Capillary flow weld-bonding		Hypersonic airbreathing missile	
[NASA-CASE-MFS-22129-1]	c 33	N75-18477	[NASA-CASE-LAR-11726-1]	c 37	[NASA-CASE-LAR-12264-1]	c 15 N78-32168
Automatic liquid inventory collecting and dispensing unit			Detector absorptivity measuring method and apparatus		Process for preparing thermoplastic aromatic polyimides	
[NASA-CASE-LAR-11071-1]	c 35	N75-19611	[NASA-CASE-LAR-10907-1]	c 35	[NASA-CASE-LAR-11828-1]	c 27 N78-32261
Vacuum leak detector			Method for detecting pollutants		Magnetometer with a miniature transducer and automatic scanning	
[NASA-CASE-LAR-11237-1]	c 35	N75-19612	[NASA-CASE-LAR-11405-1]	c 45	[NASA-CASE-LAR-11617-2]	c 35 N78-32397
Spectrometer integrated with a facsimile camera			Wingtip vortex dissipator for aircraft		Independent power generator	
[NASA-CASE-LAR-11207-1]	c 35	N75-19613	[NASA-CASE-LAR-11645-1]	c 02	[NASA-CASE-LAR-11208-1]	c 44 N78-32539
Instrumentation for measurement of aircraft noise and sonic boom			Casting propellant in rocket engine		Pseudo continuous wave instrument	
[NASA-CASE-LAR-11173-1]	c 35	N75-19614	[NASA-CASE-LAR-11995-1]	c 28	[NASA-CASE-LAR-12260-1]	c 35 N79-10390
Laser head for simultaneous optical pumping of several dye lasers			Anti-multipath digital signal detector		Nozzle extraction process and handmeter for measuring handle	
[NASA-CASE-LAR-11341-1]	c 36	N75-19655	[NASA-CASE-LAR-11827-1]	c 32	[NASA-CASE-LAR-12147-1]	c 31 N79-11246
High lift aircraft			Weld-bonded titanium structures		Fluid velocity measuring device	
[NASA-CASE-LAR-11252-1]	c 05	N75-25914	[NASA-CASE-LAR-11549-1]	c 37	[NASA-CASE-LAR-11729-1]	c 34 N79-12359
Vapor phase growth of groups 3-5 compounds by hydrogen chloride transport of the elements			Phase modulating with odd and even finite power series of a modulating signal		Totally confined explosive welding	
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Resonant waveguide stark cell			Miniature biaxial strain transducer		Vortex-lift roll-control device	
[NASA-CASE-LAR-11352-1]	c 33	N75-26245	[NASA-CASE-LAR-11648-1]	c 35	[NASA-CASE-LAR-11868-2]	c 08 N79-14108
Fluid control apparatus and method			Precision alignment apparatus for cutting a workpiece		Electronically scanned pressure sensor module with in situ calibration capability	
[NASA-CASE-LAR-11110-1]	c 34	N75-26282	[NASA-CASE-LAR-11658-1]	c 37	[NASA-CASE-LAR-12230-1]	c 35 N79-14347
Electrolytic cell structure			Solid propellant rocket motor and method of making same		Versatile LDV burst simulator	
[NASA-CASE-LAR-11042-1]	c 33	N75-27252	[NASA-CASE-XLA-1349]	c 20	[NASA-CASE-LAR-11859-1]	c 35 N79-14349
Automatic microbial transfer device			Particulate and solar radiation stable coating for spacecraft		Locking redundant link	
[NASA-CASE-LAR-11354-1]	c 35	N75-27330	[NASA-CASE-LAR-10805-2]	c 34	[NASA-CASE-LAR-11900-1]	c 37 N79-14382
Polyimide adhesives			Magnetic heading reference		Chromatically corrected virtual image display	
[NASA-CASE-LAR-11397-1]	c 27	N75-29263	[NASA-CASE-LAR-11387-2]	c 04	[NASA-CASE-LAR-12251-1]	c 74 N79-14892
			Binocular device for displaying numerical information in field of view		Apparatus for measuring an aircraft's speed and height	
			[NASA-CASE-LAR-11782-1]	c 74	[NASA-CASE-LAR-12275-1]	c 35 N79-18296
			Method of locating persons in distress		Volumetric direct nuclear pumped laser	
			[NASA-CASE-LAR-11390-1]	c 32	[NASA-CASE-LAR-12183-1]	c 36 N79-18307
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- Displacement probes with self-contained exciting medium
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- Crystalline polyimides
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- Ultrasonic scanner for radial and flat panels
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- Digital computing cardiometer
[NASA-CASE-MFS-20284-1] c 52 N74-12778
- Integrated circuit package with lead structure and method of preparing the same
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- Vee-notching device
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- Ultrasonic scanning system for in-place inspection of brazed tube joints
[NASA-CASE-MFS-20767-1] c 38 N74-15130
- Method and apparatus for checking the stability of a setup for making reflection type holograms
[NASA-CASE-MFS-21455-1] c 35 N74-15146
- Method and apparatus for nondestructive testing
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- Real time moving scene holographic camera system
[NASA-CASE-MFS-21087-1] c 35 N74-17153
- Nonflammable coating compositions
[NASA-CASE-MFS-20486-2] c 27 N74-17283
- Metering gun for dispensing precisely measured charges of fluid
[NASA-CASE-MFS-21163-1] c 54 N74-17853
- Omnidirectional wheel
[NASA-CASE-MFS-21309-1] c 37 N74-18125
- Reinforced polyquinoxaline gasket and method of preparing the same
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- Manual actuator
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- Cryogenic gyroscope housing
[NASA-CASE-MFS-21136-1] c 35 N74-18323
- Automatic frequency control for FM transmitter
[NASA-CASE-MFS-21540-1] c 32 N74-19790
- Microwave power transmission system wherein level of transmitted power is controlled by reflections from receiver
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- Reduced gravity fecal collector seat and urinal
[NASA-CASE-MFS-22102-1] c 54 N74-20725
- Metabolic analyzer
[NASA-CASE-MFS-21415-1] c 52 N74-20728
- Automatic quadrature control and measuring system
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- Thiophenyl ether disiloxanes and trisiloxanes useful as lubricant fluids
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- Airlock
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- Low distortion automatic phase control circuit
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- Two speed drive system
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- Insert facing tool
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- LC-oscillator with automatic stabilized amplitude via bias current control
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- Device for monitoring a change in mass in varying gravimetric environments
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- Holography utilizing surface plasmon resonances
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- Electrophoretic sample insertion
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- Sprag solenoid brake
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- Device for configuring multiple leads
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- Thrust-isolating mounting
[NASA-CASE-MFS-21680-1] c 18 N74-27397
- Battery testing device
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- Apparatus for establishing flow of a fluid mass having a known velocity
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- Apparatus for conducting flow electrophoresis in the substantial absence of gravity
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- Steady state thermal radiometers
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- Conductive elastomeric extensometer
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- Device for measuring tensile forces
[NASA-CASE-MFS-21728-1] c 35 N74-27865
- Three mirror glancing incidence system for X-ray telescope
[NASA-CASE-MFS-21372-1] c 74 N74-27866
- Flame detector operable in presence of proton radiation
[NASA-CASE-MFS-21577-1] c 19 N74-29410
- Integrated P-channel MOS gyrator
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- System for depositing thin films
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- Ultrasonic bone densitometer
[NASA-CASE-MFS-20994-1] c 35 N75-12271
- Strain gauge ambiguity sensor for segmented mirror active optical system
[NASA-CASE-MFS-20506-1] c 35 N75-12273
- Orthotic arm joint
[NASA-CASE-MFS-21611-1] c 54 N75-12616
- Automatically operable self-leveling load table
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- Phase-locked servo system
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- Self-energized plasma compressor
[NASA-CASE-MFS-22145-1] c 75 N75-13625
- Clear air turbulence detector
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- Variable frequency inverter for ac induction motors with torque, speed and braking control
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- Leak detector
[NASA-CASE-MFS-21761-1] c 35 N75-15931
- Ergometer calibrator
[NASA-CASE-MFS-21045-1] c 35 N75-15932
- Space vehicle
[NASA-CASE-MFS-22734-1] c 18 N75-19329
- Meter for use in detecting tension in straps having predetermined elastic characteristics
[NASA-CASE-MFS-22189-1] c 35 N75-19615
- Multiplex focusing collimator
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- Latching device
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- Internally supported flexible duct joint
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- Pseudo-noise test set for communication system evaluation
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- Device for use in loading tension members
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- Holographic system for nondestructive testing
[NASA-CASE-MFS-21704-1] c 35 N75-25124
- Hole cutter
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- Apparatus for calibrating an image dissector tube
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- Method of determining bond quality of power transistors attached to substrates
[NASA-CASE-MFS-21931-1] c 37 N75-26372
- Anti-gravity device
[NASA-CASE-MFS-22758-1] c 70 N75-26789
- Brazing alloy binder
[NASA-CASE-MFS-22060-1] c 26 N75-27125
- Brazing alloy composition
[NASA-CASE-MFS-22053-1] c 26 N75-27126
- Refractory porcelain enamel passive control coating for high temperature alloys
[NASA-CASE-MFS-22324-1] c 27 N75-27160
- Real time, large volume, moving scene holographic camera system
[NASA-CASE-MFS-22537-1] c 35 N75-27328
- Method and apparatus for vibration analysis utilizing the Mossbauer effect
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- Method of preparing graphite reinforced aluminum composite
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- Carbon monoxide monitor
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- Perfluoro alkylene dioxy-bis-(4-phthalic anhydrides and oxy-bis-(perfluoroalkyleneoxyphthalic anhydrides
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- Integrable power gyrator
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- Isolated output system for a class D switching-mode amplifier
[NASA-CASE-MFS-21616-1] c 33 N75-30429
- Solar energy power system
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- System for enhancing tool-exchange capabilities of a portable wrench
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- Externally supported internally stabilized flexible duct joint
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- Quick disconnect filter coupling
[NASA-CASE-MFS-22323-1] c 37 N76-14463
- Panel for selectively absorbing solar thermal energy and the method of producing said panel
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- Rapid activation and checkout device for batteries
[NASA-CASE-MFS-22749-1] c 44 N76-14601
- Two stage light gas-plasma projectile accelerator
[NASA-CASE-MFS-22287-1] c 75 N76-14931
- Polyimides of ether-linked aryl tetracarboxylic dianhydrides
[NASA-CASE-MFS-22355-1] c 23 N76-15268
- Remotely operable articulated manipulator
[NASA-CASE-MFS-22707-1] c 37 N76-15457
- Remote manipulator system
[NASA-CASE-MFS-22022-1] c 37 N76-15460
- Thermoelectric power system
[NASA-CASE-MFS-22002-1] c 44 N76-16612
- Self-energized plasma compressor
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- Device for measuring the ferrite content in an austenitic stainless-steel weld
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- Heat transfer device
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- Holographic motion picture camera with Doppler shift compensation
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- Method of peening and portable peening gun
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- Mixing insert for foam dispensing apparatus
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- Traffic survey system
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- Electronic optical transfer function analyzer
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- System for imposing directional stability on a rocket-propelled vehicle
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- Filtering device
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- Translatory shock absorber for attitude sensors
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- Device for installing rocket engines
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- Deployable flexible tunnel
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- Solar energy absorber
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- Apparatus for reducing aerodynamic noise in a wind tunnel
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- Solar energy power system
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- Solar energy trap
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- Failure detection and control means for improved drift performance of a gimbaled platform system
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- Lead-oxygen dc power supply system having a closed loop oxygen and water system
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- Thermal energy storage system
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- Aircraft-mounted crash-activated transmitter device
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- Multiple in-line docking capability for rotating space stations
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- Attitude control system
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- Heat exchanger
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- Focused laser Doppler velocimeter
[NASA-CASE-MFS-23178-1] c 35 N77-10493
- Photovoltaic cell array
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- Wind measurement system
[NASA-CASE-MFS-23362-1] c 47 N77-10753
- Mechanical thermal motor
[NASA-CASE-MFS-23062-1] c 37 N77-12402
- Solid-state current transformer
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- Actuator device for artificial leg
[NASA-CASE-MFS-23225-1] c 52 N77-14735
- Frequency modulated oscillator
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- Method of and means for testing a tape record/playback system
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- Notch filter
[NASA-CASE-MFS-23303-1] c 32 N77-18307
- Guide for a typewriter
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- Mount for continuously orienting a collector dish in a system adapted to perform both diurnal and seasonal solar tracking
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- Emergency descent device
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- Device for tensioning test specimens within an hermetically sealed chamber
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- Combined docking and grasping device
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- Method of growing composites of the type exhibiting the Soret effect
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- Method for measuring biaxial stress in a body subjected to stress inducing loads
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- Method for attaching a fused-quartz mirror to a conductive metal substrate
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- Method of preparing zinc orthotitanate pigment
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- Accumulator
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- Tachometer
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- Real time reflectometer
[NASA-CASE-MFS-23118-1] c 35 N77-31465
- Method of crystallization
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- Power factor control system for AC induction motors
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- Germanium coated microbridge and method
[NASA-CASE-MFS-23274-1] c 33 N78-13320
- Laser extensometer
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- Method of and means for testing a glancing-incidence mirror system of an X-ray telescope
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- Projection system for display of parallax and perspective
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- Gas ion laser construction for electrically isolating the pressure gauge thereof
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- Wrist joint assembly
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- Semiconductor projectile impact detector
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- Sprayable low density ablator and application process
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- Apparatus for use in examining the lattice of a semiconductor wafer by X-ray diffraction
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- Tetherline system for orbiting satellites
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- Method and apparatus for conditioning of nickel-cadmium batteries
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- Passive propellant system
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- Field effect transistor and method of construction thereof
[NASA-CASE-MFS-23312-1] c 33 N78-27326
- Plasma cleaning device
[NASA-CASE-MFS-22908-1] c 75 N78-27913
- Process for spinning flame retardant elastomeric compositions
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- Velocity measurement system
[NASA-CASE-MFS-23363-1] c 35 N78-32396
- Hybrid holographic non-destructive test system
[NASA-CASE-MFS-23114-1] c 38 N78-32447
- FM/CW radar system
[NASA-CASE-MFS-22234-1] c 32 N79-10264
- Method of obtaining intensified image from developed photographic films and plates
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- Computerized system for translating a torch head
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- Rotatable mass for a flywheel
[NASA-CASE-MFS-23051-1] c 37 N79-10422
- Water system virus detection
[NASA-CASE-MSC-16098-1] c 51 N79-10693
- Anastigmatic three-mirror telescope
[NASA-CASE-MFS-23675-1] c 89 N79-10969
- Apparatus for assembling space structure
[NASA-CASE-MFS-23579-1] c 18 N79-11108
- Spherical bearing
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- Method for making an aluminum or copper substrate panel for selective absorption of solar energy
[NASA-CASE-MFS-23518-1] c 44 N79-11469
- System for the measurement of ultra-low stray light levels
[NASA-CASE-MFS-23513-1] c 74 N79-11865
- Simulator method and apparatus for practicing the mating of an observer-controlled object with a target
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[NASA-CASE-NPO-14565-2] c 25 N81-19826
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[NASA-CASE-NPO-15658-1] c 26 N81-19890

Elastomer coated filler and composites thereof comprising at least 60% by weight of a hydrated filler and an elastomer containing an acid substituent
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High production shuttle car system for coal mines
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[NASA-CASE-NPO-16000-1] c 36 N83-24842

Mobile sampler for use in acquiring samples of terrestrial atmospheric gases
[NASA-CASE-NPO-15220-1] c 45 N83-25217

System and method for moving a probe to follow movements of tissue
[NASA-CASE-NPO-15197-1] c 52 N83-25346

Method for making a bonded single mode fiber optic wavelength coupler
[NASA-CASE-NPO-15464-1] c 74 N83-25540

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[NASA-CASE-NPO-15401-1] c 32 N83-27085

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Method for growing low defect, high purity crystalline layers
[NASA-CASE-NPO-15813-1] c 76 N83-30269

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[NASA-CASE-NPO-15304-1] c 25 N83-31743

Method and apparatus for producing gas-filled hollow spheres
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[NASA-CASE-NPO-15453-1] c 71 N83-32515

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[NASA-CASE-NPO-15522-1] c 71 N83-32516

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Antenna grout replacement system
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Resonant isolator for maser amplifier
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Acoustic bubble removal method
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Method of increasing minority carrier lifetime in silicon web or the like
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[NASA-CASE-NPO-15891-1] c 25 N83-36120

Fluidized bed liquefaction of biomass
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Fluidized bed desulfurization
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[NASA-CASE-NPO-15928-1] c 26 N84-12289

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[NASA-CASE-NPO-16112-1] c 36 N84-12463

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[NASA-CASE-NPO-15903-1] c 44 N84-12635

Method and apparatus for minimizing convection during crystal growth from solution
[NASA-CASE-NPO-15811-1] c 76 N84-12968

Pressure letdown method and device for coal conversion systems
[NASA-CASE-NPO-15100-1] c 44 N84-14583

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[NASA-CASE-NPO-16271-1] c 36 N84-15537

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[NASA-CASE-NPO-15560-1] c 75 N84-16993

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[NASA-CASE-LAR-11112-1] c 32 N76-15330
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[NASA-CASE-LAR-11476-1] c 07 N76-27232
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[NASA-CASE-LAR-12106-1] c 71 N78-14867

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[NASA-CASE-LAR-12375-1] c 32 N79-24203
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[NASA-CASE-XMS-01618] c 14 N71-20741
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[NASA-CASE-MSC-18934-3] c 24 N82-26387

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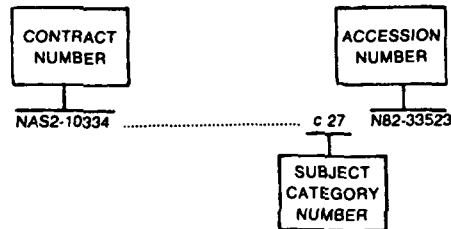
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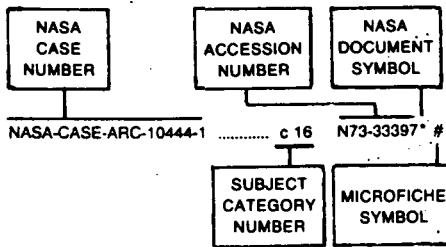
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Section 2

Typical Number Index Listing



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NASA-CASE-MSC-12101	c 09	N71-18720 *	NASA-CASE-MSC-13648	c 05	N72-27103 *	NASA-CASE-MSC-18106-1	c 33	N82-11357 *
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US-PATENT-CLASS-136-206	c 03	N72-11062 *	US-PATENT-CLASS-136-89	c 03	N71-20895 *	US-PATENT-CLASS-137-81.5	c 12	N69-21466 *
US-PATENT-CLASS-136-206	c 09	N72-12136 *	US-PATENT-CLASS-136-89	c 26	N71-23043 *	US-PATENT-CLASS-137-81.5	c 15	N71-15609 *
US-PATENT-CLASS-136-206	c 44	N76-14595 *	US-PATENT-CLASS-136-89	c 03	N71-23187 *	US-PATENT-CLASS-137-81.5	c 12	N71-17578 *
US-PATENT-CLASS-136-206	c 44	N76-31666 *	US-PATENT-CLASS-136-89	c 03	N71-23449 *	US-PATENT-CLASS-137-81.5	c 12	N71-17579 *
US-PATENT-CLASS-136-20	c 44	N74-19693 *	US-PATENT-CLASS-136-89	c 03	N71-33409 *	US-PATENT-CLASS-137-81.5	c 10	N71-25899 *
US-PATENT-CLASS-136-210	c 44	N76-18612 *	US-PATENT-CLASS-136-89	c 03	N72-20031 *	US-PATENT-CLASS-137-81.5	c 12	N71-27332 *
US-PATENT-CLASS-136-211	c 35	N76-15434 *	US-PATENT-CLASS-136-89	c 03	N72-22042 *	US-PATENT-CLASS-137-81.5	c 12	N71-28741 *
US-PATENT-CLASS-136-212	c 35	N76-15434 *	US-PATENT-CLASS-136-89	c 31	N72-22874 *	US-PATENT-CLASS-137-81.5	c 28	N72-22772 *
US-PATENT-CLASS-136-213	c 14	N69-27459 *	US-PATENT-CLASS-136-89	c 03	N72-24037 *	US-PATENT-CLASS-137-81.5	c 15	N72-33477 *
US-PATENT-CLASS-136-213	c 34	N74-27861 *	US-PATENT-CLASS-136-89	c 09	N72-25259 *	US-PATENT-CLASS-137-81.5	c 15	N73-13462 *
US-PATENT-CLASS-136-224	c 14	N73-12447 *	US-PATENT-CLASS-136-89	c 03	N72-27053 *	US-PATENT-CLASS-137-81.5	c 28	N73-13773 *
US-PATENT-CLASS-136-225	c 14	N73-24472 *	US-PATENT-CLASS-136-89	c 09	N73-32109 *	US-PATENT-CLASS-137-819	c 33	N74-11050 *
US-PATENT-CLASS-136-225	c 35	N76-15434 *	US-PATENT-CLASS-136-89	c 44	N74-14784 *	US-PATENT-CLASS-137-81	c 05	N72-20097 *
US-PATENT-CLASS-136-227	c 09	N72-12136 *	US-PATENT-CLASS-136-89	c 44	N76-14600 *	US-PATENT-CLASS-137-81	c 14	N73-13418 *
US-PATENT-CLASS-136-228	c 33	N71-15568 *	US-PATENT-CLASS-136-89	c 44	N76-28835 *	US-PATENT-CLASS-137-833	c 33	N74-11050 *
US-PATENT-CLASS-136-230	c 14	N71-23039 *	US-PATENT-CLASS-136-89	c 44	N76-31666 *	US-PATENT-CLASS-137-840	c 33	N74-11050 *
US-PATENT-CLASS-136-230	c 34	N74-27861 *	US-PATENT-CLASS-136-89	c 44	N77-10635 *	US-PATENT-CLASS-137-886	c 37	N81-17433 *
US-PATENT-CLASS-136-232	c 35	N77-14409 *	US-PATENT-CLASS-136-89	c 44	N77-10635 *	US-PATENT-CLASS-137-887	c 37	N81-17433 *
US-PATENT-CLASS-136-233	c 14	N72-27410 *	US-PATENT-CLASS-136-89	c 44	N77-19571 *	US-PATENT-CLASS-138.8R	c 27	N81-15104 *
US-PATENT-CLASS-136-233	c 14	N73-13417 *	US-PATENT-CLASS-136-89	c 44	N79-11468 *	US-PATENT-CLASS-138-103	c 52	N80-16725 *
US-PATENT-CLASS-136-233	c 34	N74-27861 *	US-PATENT-CLASS-136-90	c 44	N76-14601 *	US-PATENT-CLASS-138-113	c 34	N75-12222 *
US-PATENT-CLASS-136-233	c 35	N77-14409 *	US-PATENT-CLASS-137-DIG.9	c 54	N76-24900 *	US-PATENT-CLASS-138-114	c 34	N75-12222 *
US-PATENT-CLASS-136-236R	c 35	N77-32454 *	US-PATENT-CLASS-137-101	c 07	N77-23106 *	US-PATENT-CLASS-138-119	c 32	N70-41578 *
US-PATENT-CLASS-136-236	c 35	N79-14346 *	US-PATENT-CLASS-137-104	c 37	N78-10467 *	US-PATENT-CLASS-138-133	c 52	N80-16722 *
US-PATENT-CLASS-136-240	c 35	N77-32454 *	US-PATENT-CLASS-137-110	c 54	N76-24900 *	US-PATENT-CLASS-138-148	c 34	N75-12222 *
US-PATENT-CLASS-136-249	c 44	N81-12542 *	US-PATENT-CLASS-137-13	c 15	N71-15967 *	US-PATENT-CLASS-138-178	c 15	N72-20445 *
US-PATENT-CLASS-136-249	c 44	N82-29709 *	US-PATENT-CLASS-137-13	c 15	N72-33477 *	US-PATENT-CLASS-138-333	c 52	N80-16725 *
US-PATENT-CLASS-136-249	c 44	N82-31764 *	US-PATENT-CLASS-137-14	c 37	N79-33468 *	US-PATENT-CLASS-138-42	c 15	N71-15608 *
US-PATENT-CLASS-136-249	c 44	N83-32177 *	US-PATENT-CLASS-137-15.1	c 02	N74-20646 *	US-PATENT-CLASS-138-42	c 44	N84-14583 *
US-PATENT-CLASS-136-24	c 09	N73-32108 *	US-PATENT-CLASS-137-15.1	c 07	N74-31270 *	US-PATENT-CLASS-138-43	c 15	N71-19213 *
US-PATENT-CLASS-136-255	c 44	N81-29525 *	US-PATENT-CLASS-137-15.1	c 07	N75-24736 *	US-PATENT-CLASS-138-45	c 15	N71-18580 *
US-PATENT-CLASS-136-255	c 44	N83-14692 *	US-PATENT-CLASS-137-15.1	c 07	N77-18154 *	US-PATENT-CLASS-138-45	c 15	N73-13462 *
US-PATENT-CLASS-136-256	c 44	N83-13579 *	US-PATENT-CLASS-137-15.1	c 07	N79-14096 *	US-PATENT-CLASS-138-46	c 12	N71-18615 *
US-PATENT-CLASS-136-256	c 44	N83-14692 *	US-PATENT-CLASS-137-15.1	c 05	N79-24976 *	US-PATENT-CLASS-138-4	c 15	N71-18580 *
US-PATENT-CLASS-136-258	c 44	N81-19558 *	US-PATENT-CLASS-137-15.1	c 07	N81-14999 *	US-PATENT-CLASS-138-96R	c 37	N79-22474 *
US-PATENT-CLASS-136-258	c 44	N81-29525 *	US-PATENT-CLASS-137-15.2	c 02	N74-20646 *	US-PATENT-CLASS-139-425R	c 28	N72-11708 *
US-PATENT-CLASS-136-259	c 44	N83-13579 *	US-PATENT-CLASS-137-15.2	c 35	N76-14431 *	US-PATENT-CLASS-140-105	c 15	N72-12408 *
US-PATENT-CLASS-136-259	c 44	N83-14692 *	US-PATENT-CLASS-137-154	c 15	N73-27406 *	US-PATENT-CLASS-140-123	c 15	N71-15918 *
US-PATENT-CLASS-136-261	c 44	N82-26777 *	US-PATENT-CLASS-137-177	c 20	N80-10278 *	US-PATENT-CLASS-140-124	c 15	N71-10809 *
US-PATENT-CLASS-136-262	c 44	N81-29525 *	US-PATENT-CLASS-137-197	c 15	N70-41646 *	US-PATENT-CLASS-141-197	c 35	N78-10428 *
US-PATENT-CLASS-136-28	c 03	N71-10608 *	US-PATENT-CLASS-137-197	c 35	N78-12390 *	US-PATENT-CLASS-141-23	c 15	N72-21465 *
US-PATENT-CLASS-136-290	c 44	N82-26777 *	US-PATENT-CLASS-137-1	c 12	N70-38997 *	US-PATENT-CLASS-141-258	c 14	N71-27005 *
US-PATENT-CLASS-136-291	c 44	N81-12542 *	US-PATENT-CLASS-137-1	c 15	N73-27406 *	US-PATENT-CLASS-141-4	c 35	N78-10428 *
US-PATENT-CLASS-136-30	c 44	N74-19693 *	US-PATENT-CLASS-137-207	c 34	N77-30399 *	US-PATENT-CLASS-141-5	c 33	N71-20834 *
US-PATENT-CLASS-136-30	c 44	N76-18643 *	US-PATENT-CLASS-137-209	c 34	N77-30399 *	US-PATENT-CLASS-141-91	c 12	N71-21089 *
US-PATENT-CLASS-136-30	c 44	N76-29699 *	US-PATENT-CLASS-137-209	c 20	N80-10278 *	US-PATENT-CLASS-148-1.5	c 26	N71-10607 *
US-PATENT-CLASS-136-36	c 44	N74-19692 *	US-PATENT-CLASS-137-340	c 15	N70-34817 *	US-PATENT-CLASS-148-1.5	c 26	N71-23654 *
US-PATENT-CLASS-136-6LF	c 44	N76-18643 *	US-PATENT-CLASS-137-340	c 15	N70-35087 *	US-PATENT-CLASS-148-1.5	c 76	N74-20329 *
US-PATENT-CLASS-136-6	c 03	N71-26084 *	US-PATENT-CLASS-137-341	c 12	N71-17661 *	US-PATENT-CLASS-148-1.5	c 44	N80-29835 *
US-PATENT-CLASS-136-6	c 03	N72-15986 *	US-PATENT-CLASS-137-375	c 37	N80-23654 *	US-PATENT-CLASS-148-1.5	c 33	N81-26360 *
US-PATENT-CLASS-136-6	c 44	N82-24641 *	US-PATENT-CLASS-137-397	c 15	N73-26472 *	US-PATENT-CLASS-148-1.5	c 44	N82-26777 *
US-PATENT-CLASS-136-6	c 44	N82-24642 *	US-PATENT-CLASS-137-469	c 05	N72-20097 *	US-PATENT-CLASS-148-1.5	c 44	N82-29709 *
US-PATENT-CLASS-136-6	c 44	N82-24643 *	US-PATENT-CLASS-137-484.2	c 34	N78-25351 *	US-PATENT-CLASS-148-11.5R	c 15	N73-13465 *
US-PATENT-CLASS-136-6	c 44	N82-24644 *	US-PATENT-CLASS-137-487.5	c 14	N73-13418 *	US-PATENT-CLASS-148-12.4	c 26	N79-22271 *
US-PATENT-CLASS-136-79	c 03	N72-20032 *	US-PATENT-CLASS-137-491	c 15	N69-21924 *	US-PATENT-CLASS-148-12.7A	c 26	N78-24333 *
US-PATENT-CLASS-136-81	c 03	N72-20032 *	US-PATENT-CLASS-137-493	c 52	N81-25660 *	US-PATENT-CLASS-148-12.7N	c 26	N77-20201 *
US-PATENT-CLASS-136-83R	c 03	N72-20034 *	US-PATENT-CLASS-137-495	c 15	N70-38603 *	US-PATENT-CLASS-148-12F	c 26	N79-22271 *
US-PATENT-CLASS-136-83R	c 44	N76-18641 *	US-PATENT-CLASS-137-496	c 15	N71-22706 *	US-PATENT-CLASS-148-121	c 76	N79-16678 *
US-PATENT-CLASS-136-83	c 03	N71-28579 *	US-PATENT-CLASS-137-501	c 34	N78-25351 *	US-PATENT-CLASS-148-125	c 26	N78-24333 *
US-PATENT-CLASS-136-86A	c 44	N76-27664 *	US-PATENT-CLASS-137-505.12	c 14	N71-18625 *	US-PATENT-CLASS-148-126	c 17	N71-24142 *
US-PATENT-CLASS-136-86S	c 44	N76-18641 *	US-PATENT-CLASS-137-505.16	c 34	N78-25351 *	US-PATENT-CLASS-148-126	c 18	N71-26153 *
US-PATENT-CLASS-136-86	c 03	N71-11052 *	US-PATENT-CLASS-137-505.25	c 37	N78-25426 *	US-PATENT-CLASS-148-126	c 18	N71-28729 *
US-PATENT-CLASS-136-86	c 03	N71-20904 *	US-PATENT-CLASS-137-505.38	c 37	N75-15050 *	US-PATENT-CLASS-148-126	c 26	N74-10521 *
US-PATENT-CLASS-136-86	c 15	N71-23022 *	US-PATENT-CLASS-137-505.42	c 37	N75-15050 *	US-PATENT-CLASS-148-127	c 26	N75-29236 *
US-PATENT-CLASS-136-86	c 03	N71-29044 *	US-PATENT-CLASS-137-515.3	c 37	N76-14463 *	US-PATENT-CLASS-148-131	c 26	N80-28492 *
US-PATENT-CLASS-136-89AC	c 44	N77-31601 *	US-PATENT-CLASS-137-516.27	c 15	N73-30459 *	US-PATENT-CLASS-148-13	c 14	N71-25892 *
US-PATENT-CLASS-136-89CA	c 44	N79-25482 *	US-PATENT-CLASS-137-535	c 15	N73-30459 *	US-PATENT-CLASS-148-162	c 26	N77-20201 *
US-PATENT-CLASS-136-89CC	c 44	N78-25527 *	US-PATENT-CLASS-137-535	c 05	N73-32014 *	US-PATENT-CLASS-148-173	c 76	N83-20789 *
US-PATENT-CLASS-136-89CC	c 44	N78-25529 *	US-PATENT-CLASS-137-538	c 05	N73-25125 *	US-PATENT-CLASS-148-174	c 26	N71-29156 *

US-PATENT-CLASS-162-29

US-PATENT-CLASS-148-174	c 44	N76-28635	#	US-PATENT-CLASS-156-DIG.64	c 44	N80-24741	#	US-PATENT-CLASS-156-379.7	c 33	N82-26571	#
US-PATENT-CLASS-148-174	c 44	N78-24609	#	US-PATENT-CLASS-156-DIG.64	c 76	N80-32245	#	US-PATENT-CLASS-156-382	c 37	N76-21554	#
US-PATENT-CLASS-148-175	c 25	N75-26043	#	US-PATENT-CLASS-156-DIG.65	c 76	N79-11920	#	US-PATENT-CLASS-156-391	c 35	N84-12443	#
US-PATENT-CLASS-148-175	c 76	N76-25049	#	US-PATENT-CLASS-156-DIG.6	c 76	N83-35888	#	US-PATENT-CLASS-156-3	c 17	N71-16044	#
US-PATENT-CLASS-148-175	c 44	N76-28635	#	US-PATENT-CLASS-156-DIG.73	c 76	N83-35888	#	US-PATENT-CLASS-156-3	c 15	N71-21404	#
US-PATENT-CLASS-148-175	c 44	N82-28780	#	US-PATENT-CLASS-156-DIG.73	c 27	N83-36220	#	US-PATENT-CLASS-156-3	c 15	N71-24047	#
US-PATENT-CLASS-148-175	c 76	N83-20789	#	US-PATENT-CLASS-156-DIG.88	c 76	N79-11920	#	US-PATENT-CLASS-156-3	c 06	N72-21094	#
US-PATENT-CLASS-148-187	c 26	N72-17820	#	US-PATENT-CLASS-156-DIG.88	c 76	N80-32245	#	US-PATENT-CLASS-156-423	c 35	N84-12443	#
US-PATENT-CLASS-148-187	c 14	N72-28438	#	US-PATENT-CLASS-156-DIG.89	c 27	N83-36220	#	US-PATENT-CLASS-156-510	c 15	N71-17687	#
US-PATENT-CLASS-148-187	c 33	N81-26360	#	US-PATENT-CLASS-156-DIG.96	c 76	N80-32244	#	US-PATENT-CLASS-156-510	c 03	N72-25019	#
US-PATENT-CLASS-148-188	c 24	N71-10560	#	US-PATENT-CLASS-156-DIG.96	c 33	N81-19389	#	US-PATENT-CLASS-156-52	c 31	N79-1226	#
US-PATENT-CLASS-148-188	c 09	N71-12513	#	US-PATENT-CLASS-156-104	c 44	N80-18550	#	US-PATENT-CLASS-156-540	c 35	N84-12443	#
US-PATENT-CLASS-148-188	c 44	N79-11468	#	US-PATENT-CLASS-156-154	c 24	N78-17150	#	US-PATENT-CLASS-156-545	c 15	N71-24164	#
US-PATENT-CLASS-148-20.3	c 26	N77-20201	#	US-PATENT-CLASS-156-154	c 27	N81-14077	#	US-PATENT-CLASS-156-556	c 37	N76-21554	#
US-PATENT-CLASS-148-2	c 26	N77-20201	#	US-PATENT-CLASS-156-157	c 33	N82-26571	#	US-PATENT-CLASS-156-59	c 31	N83-34073	#
US-PATENT-CLASS-148-2	c 26	N79-22271	#	US-PATENT-CLASS-156-160	c 27	N81-14077	#	US-PATENT-CLASS-156-600	c 27	N83-36220	#
US-PATENT-CLASS-148-32	c 26	N78-18183	#	US-PATENT-CLASS-156-161	c 24	N81-29163	#	US-PATENT-CLASS-156-601	c 76	N77-32919	#
US-PATENT-CLASS-148-32.5	c 17	N72-22535	#	US-PATENT-CLASS-156-163	c 27	N81-14077	#	US-PATENT-CLASS-156-601	c 76	N80-32245	#
US-PATENT-CLASS-148-32.5	c 26	N77-20201	#	US-PATENT-CLASS-156-165	c 24	N81-29163	#	US-PATENT-CLASS-156-602	c 76	N82-30105	#
US-PATENT-CLASS-148-32.5	c 26	N77-32280	#	US-PATENT-CLASS-156-16	c 74	N75-12732	#	US-PATENT-CLASS-156-605	c 44	N80-24741	#
US-PATENT-CLASS-148-32.5	c 26	N78-18183	#	US-PATENT-CLASS-156-172	c 15	N71-17651	#	US-PATENT-CLASS-156-608	c 76	N79-11920	#
US-PATENT-CLASS-148-32	c 26	N77-32279	#	US-PATENT-CLASS-156-17	c 76	N79-21910	#	US-PATENT-CLASS-156-608	c 33	N81-19389	#
US-PATENT-CLASS-148-32	c 26	N80-23419	#	US-PATENT-CLASS-156-18	c 26	N73-26752	#	US-PATENT-CLASS-156-608	c 76	N82-30105	#
US-PATENT-CLASS-148-428	c 26	N82-31505	#	US-PATENT-CLASS-156-18	c 74	N75-12732	#	US-PATENT-CLASS-156-608	c 76	N83-20789	#
US-PATENT-CLASS-148-6.11	c 15	N71-24875	#	US-PATENT-CLASS-156-212	c 03	N71-26726	#	US-PATENT-CLASS-156-608	c 76	N83-35888	#
US-PATENT-CLASS-148-6.16	c 18	N71-23047	#	US-PATENT-CLASS-156-212	c 24	N80-26388	#	US-PATENT-CLASS-156-60	c 15	N71-22713	#
US-PATENT-CLASS-148-6.20	c 17	N71-23828	#	US-PATENT-CLASS-156-212	c 27	N81-14077	#	US-PATENT-CLASS-156-610	c 76	N76-25049	#
US-PATENT-CLASS-148-6.3	c 17	N71-33408	#	US-PATENT-CLASS-156-213	c 24	N80-26388	#	US-PATENT-CLASS-156-610	c 27	N83-36220	#
US-PATENT-CLASS-148-6.3	c 44	N79-18444	#	US-PATENT-CLASS-156-215	c 35	N84-12443	#	US-PATENT-CLASS-156-612	c 76	N76-25049	#
US-PATENT-CLASS-148-6	c 18	N71-29040	#	US-PATENT-CLASS-156-218	c 54	N74-32546	#	US-PATENT-CLASS-156-612	c 44	N76-28635	#
US-PATENT-CLASS-148-6	c 76	N79-16678	#	US-PATENT-CLASS-156-229	c 24	N77-28225	#	US-PATENT-CLASS-156-613	c 76	N76-25049	#
US-PATENT-CLASS-149-105	c 28	N78-31255	#	US-PATENT-CLASS-156-230	c 35	N84-12443	#	US-PATENT-CLASS-156-613	c 44	N76-28635	#
US-PATENT-CLASS-149-108.4	c 28	N80-23471	#	US-PATENT-CLASS-156-235	c 35	N84-12443	#	US-PATENT-CLASS-156-614	c 44	N76-28635	#
US-PATENT-CLASS-149-108.4	c 28	N81-15119	#	US-PATENT-CLASS-156-242	c 15	N69-24322	#	US-PATENT-CLASS-156-617SP	c 76	N79-11920	#
US-PATENT-CLASS-149-109	c 27	N70-41897	#	US-PATENT-CLASS-156-242	c 37	N76-24575	#	US-PATENT-CLASS-156-617SP	c 76	N79-23798	#
US-PATENT-CLASS-149-111	c 28	N78-31255	#	US-PATENT-CLASS-156-242	c 24	N81-33235	#	US-PATENT-CLASS-156-617SP	c 44	N80-24741	#
US-PATENT-CLASS-149-15	c 44	N80-28008	#	US-PATENT-CLASS-156-245	c 31	N74-18089	#	US-PATENT-CLASS-156-617SP	c 76	N80-32245	#
US-PATENT-CLASS-149-17	c 28	N74-33209	#	US-PATENT-CLASS-156-245	c 24	N78-17149	#	US-PATENT-CLASS-156-619	c 76	N77-32919	#
US-PATENT-CLASS-149-19.2	c 28	N80-28536	#	US-PATENT-CLASS-156-245	c 24	N81-33235	#	US-PATENT-CLASS-156-620	c 76	N77-32919	#
US-PATENT-CLASS-149-19.4	c 28	N78-31255	#	US-PATENT-CLASS-156-247	c 31	N74-18089	#	US-PATENT-CLASS-156-624	c 76	N83-20789	#
US-PATENT-CLASS-149-19.4	c 20	N78-32179	#	US-PATENT-CLASS-156-250	c 03	N72-25019	#	US-PATENT-CLASS-156-633	c 44	N78-25529	#
US-PATENT-CLASS-149-19.4	c 28	N79-28342	#	US-PATENT-CLASS-156-252	c 24	N81-33235	#	US-PATENT-CLASS-156-635	c 76	N83-20789	#
US-PATENT-CLASS-149-19.8	c 28	N78-31255	#	US-PATENT-CLASS-156-264	c 05	N72-25121	#	US-PATENT-CLASS-156-645	c 27	N77-32308	#
US-PATENT-CLASS-149-19.2	c 28	N79-14228	#	US-PATENT-CLASS-156-264	c 24	N78-17150	#	US-PATENT-CLASS-156-647	c 33	N81-26360	#
US-PATENT-CLASS-149-19.9	c 28	N79-14228	#	US-PATENT-CLASS-156-264	c 24	N81-33235	#	US-PATENT-CLASS-156-648	c 33	N81-26360	#
US-PATENT-CLASS-149-19.9	c 28	N79-28342	#	US-PATENT-CLASS-156-264	c 31	N83-34073	#	US-PATENT-CLASS-156-649	c 33	N81-26360	#
US-PATENT-CLASS-149-19.9	c 28	N80-28536	#	US-PATENT-CLASS-156-267	c 27	N81-14077	#	US-PATENT-CLASS-156-654	c 76	N83-20789	#
US-PATENT-CLASS-149-19	c 27	N71-14090	#	US-PATENT-CLASS-156-272	c 27	N80-32516	#	US-PATENT-CLASS-156-662	c 76	N83-20789	#
US-PATENT-CLASS-149-19	c 27	N72-25699	#	US-PATENT-CLASS-156-272	c 33	N82-26571	#	US-PATENT-CLASS-156-663	c 27	N77-32308	#
US-PATENT-CLASS-149-19	c 27	N73-16764	#	US-PATENT-CLASS-156-278	c 44	N80-18550	#	US-PATENT-CLASS-156-66	c 15	N72-11392	#
US-PATENT-CLASS-149-1	c 23	N71-16212	#	US-PATENT-CLASS-156-285	c 15	N71-23052	#	US-PATENT-CLASS-156-71	c 33	N82-26571	#
US-PATENT-CLASS-149-1	c 06	N73-30097	#	US-PATENT-CLASS-156-285	c 18	N73-30532	#	US-PATENT-CLASS-156-71	c 35	N84-12443	#
US-PATENT-CLASS-149-1	c 28	N80-24042	#	US-PATENT-CLASS-156-285	c 31	N74-18089	#	US-PATENT-CLASS-156-74	c 24	N81-29163	#
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 US-PATENT-CLASS-325-14 c 17 N86-21250 * #
 US-PATENT-CLASS-325-14 c 32 N80-20448 * #
 US-PATENT-CLASS-325-151.11 c 08 N71-27057 * #
 US-PATENT-CLASS-325-159 c 33 N78-32340 * #
 US-PATENT-CLASS-325-163 c 07 N71-23405 * #
 US-PATENT-CLASS-325-16 c 07 N71-27056 * #
 US-PATENT-CLASS-325-17 c 07 N73-20174 * #

US-PATENT-CLASS-325-60

US-PATENT-CLASS-325-185 c 07 N71-28430 * #
 US-PATENT-CLASS-325-186 c 03 N78-32140 * #
 US-PATENT-CLASS-325-187 c 33 N78-32340 * #
 US-PATENT-CLASS-325-23 c 07 N71-27056 * #
 US-PATENT-CLASS-325-29 c 09 N72-22202 * #
 US-PATENT-CLASS-325-302 c 07 N72-25173 * #
 US-PATENT-CLASS-325-304 c 32 N76-14321 * #
 US-PATENT-CLASS-325-305 c 07 N71-10775 * #
 US-PATENT-CLASS-325-305 c 10 N71-20841 * #
 US-PATENT-CLASS-325-305 c 07 N71-23098 * #
 US-PATENT-CLASS-325-305 c 32 N80-18253 * #
 US-PATENT-CLASS-325-306 c 32 N78-14321 * #
 US-PATENT-CLASS-325-307 c 32 N80-18253 * #
 US-PATENT-CLASS-325-30 c 32 N74-26654 * #
 US-PATENT-CLASS-325-30 c 32 N75-24981 * #
 US-PATENT-CLASS-325-30 c 32 N77-30308 * #
 US-PATENT-CLASS-325-31 c 07 N71-20791 * #
 US-PATENT-CLASS-325-320 c 33 N74-12887 * #
 US-PATENT-CLASS-325-320 c 32 N74-20809 * #
 US-PATENT-CLASS-325-320 c 32 N74-20811 * #
 US-PATENT-CLASS-325-320 c 33 N74-27705 * #
 US-PATENT-CLASS-325-321 c 07 N72-20140 * #
 US-PATENT-CLASS-325-321 c 32 N74-20810 * #
 US-PATENT-CLASS-325-321 c 32 N76-16249 * #
 US-PATENT-CLASS-325-323 c 32 N77-10392 * #
 US-PATENT-CLASS-325-325 c 07 N71-24613 * #
 US-PATENT-CLASS-325-325 c 07 N72-25173 * #
 US-PATENT-CLASS-325-325 c 07 N73-13149 * #
 US-PATENT-CLASS-325-346 c 10 N73-16205 * #
 US-PATENT-CLASS-325-346 c 32 N74-30523 * #
 US-PATENT-CLASS-325-346 c 32 N77-24331 * #
 US-PATENT-CLASS-325-347 c 07 N71-33696 * #
 US-PATENT-CLASS-325-348 c 07 N71-33696 * #
 US-PATENT-CLASS-325-349 c 32 N77-10392 * #
 US-PATENT-CLASS-325-363 c 07 N71-11267 * #
 US-PATENT-CLASS-325-363 c 14 N71-26774 * #
 US-PATENT-CLASS-325-363 c 14 N72-28437 * #
 US-PATENT-CLASS-325-363 c 10 N73-25241 * #
 US-PATENT-CLASS-325-363 c 35 N80-18359 * #
 US-PATENT-CLASS-325-369 c 07 N71-27056 * #
 US-PATENT-CLASS-325-372 c 32 N76-14321 * #
 US-PATENT-CLASS-325-373 c 07 N72-33146 * #
 US-PATENT-CLASS-325-38B c 35 N74-17885 * #
 US-PATENT-CLASS-325-38 c 07 N72-20140 * #
 US-PATENT-CLASS-325-38 c 07 N72-25173 * #
 US-PATENT-CLASS-325-39 c 07 N72-11449 * #
 US-PATENT-CLASS-325-40 c 07 N73-26118 * #
 US-PATENT-CLASS-325-419 c 10 N73-16205 * #
 US-PATENT-CLASS-325-419 c 07 N73-28012 * #
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 US-PATENT-CLASS-325-41 c 32 N77-12240 * #
 US-PATENT-CLASS-325-41 c 32 N79-10263 * #
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 US-PATENT-CLASS-325-422 c 07 N73-30113 * #
 US-PATENT-CLASS-325-423 c 32 N74-20809 * #
 US-PATENT-CLASS-325-42 c 07 N71-11266 * #
 US-PATENT-CLASS-325-42 c 32 N72-21366 * #
 US-PATENT-CLASS-325-42 c 32 N77-30308 * #
 US-PATENT-CLASS-325-445 c 07 N72-20141 * #
 US-PATENT-CLASS-325-446 c 09 N69-24324 * #
 US-PATENT-CLASS-325-45 c 07 N73-25160 * #
 US-PATENT-CLASS-325-473 c 07 N71-33696 * #
 US-PATENT-CLASS-325-473 c 10 N73-12244 * #
 US-PATENT-CLASS-325-473 c 32 N77-30308 * #
 US-PATENT-CLASS-325-476 c 32 N77-10392 * #
 US-PATENT-CLASS-325-478 c 07 N71-33696 * #
 US-PATENT-CLASS-325-480 c 10 N71-33696 * #
 US-PATENT-CLASS-325-480 c 07 N73-12244 * #
 US-PATENT-CLASS-325-482 c 07 N71-33696 * #
 US-PATENT-CLASS-325-492 c 09 N72-17153 * #
 US-PATENT-CLASS-325-492 c 09 N72-22202 * #
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 US-PATENT-CLASS-325-4 c 07 N71-19773 * #
 US-PATENT-CLASS-325-4 c 07 N71-24621 * #
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 US-PATENT-CLASS-325-4 c 07 N72-25171 * #
 US-PATENT-CLASS-325-4 c 07 N73-20174 * #
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 US-PATENT-CLASS-325-4 c 32 N75-26195 * #
 US-PATENT-CLASS-325-4 c 32 N77-20289 * #
 US-PATENT-CLASS-325-4 c 32 N79-11265 * #
 US-PATENT-CLASS-325-4 c 32 N80-20448 * #
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 US-PATENT-CLASS-325-58 c 07 N72-20140 * #
 US-PATENT-CLASS-325-58 c 07 N72-25173 * #
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 US-PATENT-CLASS-325-58 c 32 N79-20296 * #
 US-PATENT-CLASS-325-5 c 07 N73-20174 * #
 US-PATENT-CLASS-325-60 c 08 N71-19783 * #

US-PATENT-CLASS-325-60

US-PATENT-CLASS-325-60 c 07 N73-16121 * #
US-PATENT-CLASS-325-60 c 32 N75-24981 * #
US-PATENT-CLASS-325-61 c 07 N73-25160 * #
US-PATENT-CLASS-325-62 c 08 N72-25208 * #
US-PATENT-CLASS-325-62 c 44 N74-19870 * #
US-PATENT-CLASS-325-63 c 10 N71-19467 * #
US-PATENT-CLASS-325-63 c 07 N73-20174 * #
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US-PATENT-CLASS-325-63 c 32 N79-20296 * #
US-PATENT-CLASS-325-64 c 07 N72-25173 * #
US-PATENT-CLASS-325-65 c 07 N70-41331 * #
US-PATENT-CLASS-325-65 c 07 N70-41372 * #
US-PATENT-CLASS-325-65 c 07 N71-11284 * #
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US-PATENT-CLASS-325-67 c 35 N75-21582 * #
US-PATENT-CLASS-325-67 c 32 N79-11265 * #
US-PATENT-CLASS-325-7 c 07 N73-20174 * #
US-PATENT-CLASS-325-8 c 07 N73-20174 * #
US-PATENT-CLASS-325-8 c 32 N80-20448 * #
US-PATENT-CLASS-325-9 c 07 N73-20174 * #
US-PATENT-CLASS-325-9 c 32 N80-20448 * #
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US-PATENT-CLASS-328-104 c 10 N73-13235 * #
US-PATENT-CLASS-328-106 c 09 N72-22201 * #
US-PATENT-CLASS-328-110 c 09 N71-12519 * #
US-PATENT-CLASS-328-111 c 60 N77-12721 * #
US-PATENT-CLASS-328-115 c 33 N75-18479 * #
US-PATENT-CLASS-328-116 c 09 N69-39885 * #
US-PATENT-CLASS-328-120 c 09 N71-27016 * #
US-PATENT-CLASS-328-123 c 60 N74-12888 * #
US-PATENT-CLASS-328-129 c 14 N73-30386 * #
US-PATENT-CLASS-328-133 c 09 N71-24596 * #
US-PATENT-CLASS-328-133 c 10 N72-20224 * #
US-PATENT-CLASS-328-133 c 33 N75-26243 * #
US-PATENT-CLASS-328-133 c 33 N77-13315 * #
US-PATENT-CLASS-328-133 c 33 N79-11313 * #
US-PATENT-CLASS-328-133 c 33 N84-16454 * #
US-PATENT-CLASS-328-134 c 08 N71-18892 * #
US-PATENT-CLASS-328-134 c 14 N73-30386 * #
US-PATENT-CLASS-328-134 c 33 N76-16331 * #
US-PATENT-CLASS-328-134 c 33 N81-17349 * #
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US-PATENT-CLASS-328-140 c 09 N72-25257 * #
US-PATENT-CLASS-328-142 c 09 N72-21245 * #
US-PATENT-CLASS-328-145 c 32 N76-14321 * #
US-PATENT-CLASS-328-145 c 09 N72-23173 * #
US-PATENT-CLASS-328-145 c 33 N78-32339 * #
US-PATENT-CLASS-328-150 c 33 N78-18308 * #
US-PATENT-CLASS-328-151 c 09 N72-22200 * #
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US-PATENT-CLASS-328-154 c 08 N72-22162 * #
US-PATENT-CLASS-328-154 c 10 N73-13235 * #
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US-PATENT-CLASS-328-155 c 33 N74-17927 * #
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US-PATENT-CLASS-328-160 c 32 N74-19788 * #
US-PATENT-CLASS-328-161 c 33 N77-17354 * #
US-PATENT-CLASS-328-163 c 33 N79-10338 * #
US-PATENT-CLASS-328-164 c 07 N71-33696 * #
US-PATENT-CLASS-328-165 c 09 N71-24806 * #
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US-PATENT-CLASS-328-166 c 33 N82-29539 * #
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US-PATENT-CLASS-328-167 c 10 N72-17171 * #
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US-PATENT-CLASS-328-167 c 08 N73-26175 * #
US-PATENT-CLASS-328-167 c 33 N82-24417 * #
US-PATENT-CLASS-328-168 c 32 N74-19788 * #
US-PATENT-CLASS-328-16 c 10 N72-20223 * #
US-PATENT-CLASS-328-171 c 10 N71-24844 * #
US-PATENT-CLASS-328-172 c 32 N74-19788 * #
US-PATENT-CLASS-328-172 c 33 N78-17294 * #
US-PATENT-CLASS-328-186 c 09 N72-17157 * #
US-PATENT-CLASS-328-187 c 10 N73-20254 * #
US-PATENT-CLASS-328-189 c 14 N72-27408 * #
US-PATENT-CLASS-328-190 c 33 N76-14371 * #
US-PATENT-CLASS-328-192 c 60 N81-15706 * #
US-PATENT-CLASS-328-1 c 23 N71-16099 * #
US-PATENT-CLASS-328-1 c 10 N71-19472 * #
US-PATENT-CLASS-328-1 c 09 N72-22200 * #
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US-PATENT-CLASS-328-207 c 10 N71-28860 * #
US-PATENT-CLASS-328-207 c 09 N71-29139 * #
US-PATENT-CLASS-328-207 c 10 N72-20221 * #
US-PATENT-CLASS-328-20 c 10 N72-20223 * #
US-PATENT-CLASS-328-230 c 35 N84-12444 * #
US-PATENT-CLASS-328-233 c 10 N71-22962 * #

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US-PATENT-CLASS-328-24 c 09 N72-33204 * #
US-PATENT-CLASS-328-37 c 08 N71-12503 * #
US-PATENT-CLASS-328-37 c 10 N73-20254 * #
US-PATENT-CLASS-328-37 c 33 N76-14373 * #
US-PATENT-CLASS-328-37 c 33 N81-17349 * #
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US-PATENT-CLASS-328-42 c 08 N71-19432 * #
US-PATENT-CLASS-328-44 c 08 N71-29034 * #
US-PATENT-CLASS-328-48 c 14 N73-30386 * #
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US-PATENT-CLASS-328-49 c 10 N71-27137 * #
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US-PATENT-CLASS-328-58 c 08 N71-29138 * #
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US-PATENT-CLASS-328-63 c 33 N77-24375 * #
US-PATENT-CLASS-328-67 c 10 N71-28960 * #
US-PATENT-CLASS-328-67 c 33 N82-24418 * #
US-PATENT-CLASS-328-71 c 60 N81-15706 * #
US-PATENT-CLASS-328-92 c 10 N71-28860 * #
US-PATENT-CLASS-329-104 c 07 N71-11282 * #
US-PATENT-CLASS-329-104 c 33 N74-12887 * #
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US-PATENT-CLASS-329-107 c 35 N81-19427 * #
US-PATENT-CLASS-329-119 c 33 N77-21314 * #
US-PATENT-CLASS-329-120 c 07 N73-30113 * #
US-PATENT-CLASS-329-122 c 10 N71-19469 * #
US-PATENT-CLASS-329-122 c 07 N73-28012 * #
US-PATENT-CLASS-329-122 c 33 N74-12887 * #
US-PATENT-CLASS-329-122 c 32 N74-20811 * #
US-PATENT-CLASS-329-122 c 33 N77-14334 * #
US-PATENT-CLASS-329-122 c 32 N77-24331 * #
US-PATENT-CLASS-329-122 c 32 N79-14267 * #
US-PATENT-CLASS-329-122 c 33 N81-33405 * #
US-PATENT-CLASS-329-124 c 33 N77-14334 * #
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US-PATENT-CLASS-329-126 c 33 N74-12887 * #
US-PATENT-CLASS-329-140 c 07 N71-24583 * #
US-PATENT-CLASS-329-145 c 07 N71-33696 * #
US-PATENT-CLASS-329-161 c 07 N72-20141 * #
US-PATENT-CLASS-329-162 c 07 N72-20141 * #
US-PATENT-CLASS-329-166 c 33 N75-19520 * #
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US-PATENT-CLASS-329-204 c 33 N75-19520 * #
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US-PATENT-CLASS-329-205 c 33 N77-21314 * #
US-PATENT-CLASS-329-50 c 33 N74-17930 * #
US-PATENT-CLASS-329-50 c 35 N81-19427 * #
US-PATENT-CLASS-329-80B c 27 N81-15104 * #
US-PATENT-CLASS-33-DIG.13 c 35 N75-12273 * #
US-PATENT-CLASS-33-1G c 37 N76-21554 * #
US-PATENT-CLASS-33-1M c 35 N74-32877 * #
US-PATENT-CLASS-33-1N c 43 N79-26439 * #
US-PATENT-CLASS-33-1Q c 43 N79-26439 * #
US-PATENT-CLASS-33-1SA c 14 N72-28436 * #
US-PATENT-CLASS-33-1SA c 19 N74-21015 * #
US-PATENT-CLASS-33-125R c 52 N80-27072 * #
US-PATENT-CLASS-33-125 c 14 N72-11364 * #
US-PATENT-CLASS-33-143C c 52 N82-22875 * #
US-PATENT-CLASS-33-147 c 15 N71-19489 * #
US-PATENT-CLASS-33-148D c 35 N75-19615 * #
US-PATENT-CLASS-33-149 c 14 N71-17657 * #
US-PATENT-CLASS-33-15A c 08 N72-11172 * #
US-PATENT-CLASS-33-155R c 33 N76-19338 * #
US-PATENT-CLASS-33-174B c 37 N76-21554 * #
US-PATENT-CLASS-33-174D c 33 N76-19338 * #
US-PATENT-CLASS-33-174L c 43 N79-26439 * #
US-PATENT-CLASS-33-174S c 14 N72-22445 * #
US-PATENT-CLASS-33-174 c 14 N69-21363 * #
US-PATENT-CLASS-33-174 c 14 N71-17658 * #
US-PATENT-CLASS-33-174 c 14 N71-24693 * #
US-PATENT-CLASS-33-180R c 35 N75-12273 * #
US-PATENT-CLASS-33-189 c 15 N71-26145 * #
US-PATENT-CLASS-33-1 c 14 N70-36907 * #
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US-PATENT-CLASS-33-207 c 15 N71-15571 * #
US-PATENT-CLASS-33-23R c 35 N74-32877 * #
US-PATENT-CLASS-33-268 c 89 N74-30886 * #
US-PATENT-CLASS-33-285 c 36 N74-21091 * #
US-PATENT-CLASS-33-286 c 18 N76-14186 * #
US-PATENT-CLASS-33-293 c 35 N84-16523 * #
US-PATENT-CLASS-33-31 c 14 N71-21079 * #
US-PATENT-CLASS-33-322 c 06 N83-33882 * #

US-PATENT-CLASS-33-348 c 04 N84-14132 * #
US-PATENT-CLASS-33-356 c 04 N76-20114 * #
US-PATENT-CLASS-33-356 c 04 N77-19056 * #
US-PATENT-CLASS-33-356 c 04 N84-14132 * #
US-PATENT-CLASS-33-361 c 04 N84-14132 * #
US-PATENT-CLASS-33-366 c 35 N78-32395 * #
US-PATENT-CLASS-33-46R c 19 N74-21015 * #
US-PATENT-CLASS-33-72 c 15 N72-11386 * #
US-PATENT-CLASS-33-75R c 14 N72-28436 * #
US-PATENT-CLASS-33-96 c 33 N75-30430 * #
US-PATENT-CLASS-33/DIG.3 c 04 N84-14132 * #
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US-PATENT-CLASS-330-107 c 10 N72-11256 * #
US-PATENT-CLASS-330-107 c 10 N72-17172 * #
US-PATENT-CLASS-330-107 c 33 N84-14421 * #
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US-PATENT-CLASS-330-109 c 10 N72-17171 * #
US-PATENT-CLASS-330-109 c 10 N72-17172 * #
US-PATENT-CLASS-330-109 c 09 N73-20231 * #
US-PATENT-CLASS-330-109 c 33 N82-24417 * #
US-PATENT-CLASS-330-109 c 33 N84-14421 * #
US-PATENT-CLASS-330-110 c 33 N74-14939 * #
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US-PATENT-CLASS-330-14 c 33 N77-14335 * #
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US-PATENT-CLASS-330-2 c 09 N72-25250 * #
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US-PATENT-CLASS-330-35 c 09 N72-17156 * #
US-PATENT-CLASS-330-35 c 09 N73-20232 * #
US-PATENT-CLASS-330-35 c 33 N74-14939 * #
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US-PATENT-CLASS-330-4.3 c 36 N75-19655 * #
US-PATENT-CLASS-330-4.3 c 36 N75-27364 * #
US-PATENT-CLASS-330-4.3 c 36 N75-32441 * #
US-PATENT-CLASS-330-4.3 c 36 N76-29575 * #
US-PATENT-CLASS-330-4.3 c 36 N77-25502 * #
US-PATENT-CLASS-330-4.3 c 73 N78-19920 * #
US-PATENT-CLASS-330-4.3 c 36 N82-28616 * #
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US-PATENT-CLASS-330-4.9 c 33 N74-32660 * #
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US-PATENT-CLASS-330-49 c 14 N70-35220 * #
US-PATENT-CLASS-330-4 c 16 N71-15550 * #
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US-PATENT-CLASS-330-4 c 16 N72-28521 * #
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US-PATENT-CLASS-422-246	c 33	N81-19389 *	#	US-PATENT-CLASS-427-126	c 37	N78-13436 *	#	US-PATENT-CLASS-427-387	c 24	N83-13171 *	#
US-PATENT-CLASS-422-246	c 76	N82-30105 *	#	US-PATENT-CLASS-427-126	c 44	N79-11472 *	#	US-PATENT-CLASS-427-387	c 24	N83-13172 *	#
US-PATENT-CLASS-422-249	c 33	N81-19389 *	#	US-PATENT-CLASS-427-130	c 44	N77-32583 *	#	US-PATENT-CLASS-427-388A	c 24	N78-27180 *	#
US-PATENT-CLASS-422-27	c 54	N81-24724 *	#	US-PATENT-CLASS-427-140	c 27	N82-33520 *	#	US-PATENT-CLASS-427-388	c 74	N78-32854 *	#
US-PATENT-CLASS-422-30	c 54	N81-24724 *	#	US-PATENT-CLASS-427-140	c 24	N83-13172 *	#	US-PATENT-CLASS-427-38	c 27	N80-24437 *	#
US-PATENT-CLASS-422-34	c 54	N81-24724 *	#	US-PATENT-CLASS-427-160	c 34	N77-18382 *	#	US-PATENT-CLASS-427-393.3	c 27	N82-16238 *	#
US-PATENT-CLASS-422-3	c 54	N81-24724 *	#	US-PATENT-CLASS-427-160	c 44	N78-19599 *	#	US-PATENT-CLASS-427-397.7	c 27	N82-33520 *	#
US-PATENT-CLASS-422-40	c 35	N82-11432 *	#	US-PATENT-CLASS-427-162	c 12	N75-15189 *	#	US-PATENT-CLASS-427-398A	c 44	N79-11472 *	#
US-PATENT-CLASS-422-41	c 52	N79-14749 *	#	US-PATENT-CLASS-427-164	c 27	N78-14164 *	#	US-PATENT-CLASS-427-399	c 44	N79-11472 *	#
US-PATENT-CLASS-422-48	c 52	N79-14749 *	#	US-PATENT-CLASS-427-184	c 27	N78-31233 *	#	US-PATENT-CLASS-427-400	c 27	N83-34039 *	#
US-PATENT-CLASS-422-52	c 51	N80-18714 *	#	US-PATENT-CLASS-427-184	c 74	N78-32854 *	#	US-PATENT-CLASS-427-402	c 27	N76-22377 *	#
US-PATENT-CLASS-422-52	c 51	N83-27569 *	#	US-PATENT-CLASS-427-184	c 27	N80-24437 *	#	US-PATENT-CLASS-427-402	c 27	N76-23426 *	#
US-PATENT-CLASS-422-68	c 51	N80-27067 *	#	US-PATENT-CLASS-427-196	c 27	N76-15310 *	#	US-PATENT-CLASS-427-405	c 34	N78-18355 *	#
US-PATENT-CLASS-422-80	c 25	N82-12166 *	#	US-PATENT-CLASS-427-203	c 27	N76-16229 *	#	US-PATENT-CLASS-427-405	c 27	N82-28441 *	#
US-PATENT-CLASS-422-9	c 45	N80-14579 *	#	US-PATENT-CLASS-427-204	c 27	N76-16229 *	#	US-PATENT-CLASS-427-405	c 27	N83-31855 *	#
US-PATENT-CLASS-423-131	c 28	N81-15119 *	#	US-PATENT-CLASS-427-205	c 27	N76-16229 *	#	US-PATENT-CLASS-427-407.1	c 27	N83-34039 *	#
US-PATENT-CLASS-423-149	c 26	N80-14229 *	#	US-PATENT-CLASS-427-205	c 27	N82-28441 *	#	US-PATENT-CLASS-427-40	c 27	N78-31233 *	#
US-PATENT-CLASS-423-1	c 28	N81-15119 *	#	US-PATENT-CLASS-427-215	c 27	N78-32260 *	#	US-PATENT-CLASS-427-40	c 27	N79-18052 *	#
US-PATENT-CLASS-423-231	c 25	N74-12813 *	#	US-PATENT-CLASS-427-215	c 24	N83-33950 *	#	US-PATENT-CLASS-427-40	c 27	N80-24437 *	#
US-PATENT-CLASS-423-235	c 25	N82-28368 *	#	US-PATENT-CLASS-427-216	c 33	N84-16456 *	#	US-PATENT-CLASS-427-419.2	c 26	N83-31795 *	#
US-PATENT-CLASS-423-242	c 45	N79-12584 *	#	US-PATENT-CLASS-427-217	c 33	N84-16456 *	#	US-PATENT-CLASS-427-419A	c 34	N78-18355 *	#
US-PATENT-CLASS-423-249	c 25	N76-27383 *	#	US-PATENT-CLASS-427-219.2	c 27	N83-31855 *	#	US-PATENT-CLASS-427-41	c 27	N78-31233 *	#
US-PATENT-CLASS-423-293	c 26	N80-14229 *	#	US-PATENT-CLASS-427-221	c 27	N81-19296 *	#	US-PATENT-CLASS-427-41	c 74	N78-32854 *	#
US-PATENT-CLASS-423-33.5	c 25	N79-28253 *	#	US-PATENT-CLASS-427-226	c 33	N84-16456 *	#	US-PATENT-CLASS-427-41	c 27	N79-14214 *	#
US-PATENT-CLASS-423-345	c 76	N76-25049 *	#	US-PATENT-CLASS-427-229	c 25	N78-10225 *	#	US-PATENT-CLASS-427-41	c 27	N79-18052 *	#
US-PATENT-CLASS-423-345	c 76	N79-23798 *	#	US-PATENT-CLASS-427-230	c 37	N76-31524 *	#	US-PATENT-CLASS-427-41	c 27	N80-23452 *	#
US-PATENT-CLASS-423-346	c 76	N76-25049 *	#	US-PATENT-CLASS-427-240	c 37	N81-33482 *	#	US-PATENT-CLASS-427-421	c 71	N84-16940 *	#
US-PATENT-CLASS-423-348	c 26	N80-14229 *	#	US-PATENT-CLASS-427-241	c 24	N83-33950 *	#	US-PATENT-CLASS-427-423	c 34	N78-18355 *	#
US-PATENT-CLASS-423-350	c 37	N80-10494 *	#	US-PATENT-CLASS-427-243	c 31	N83-35177 *	#	US-PATENT-CLASS-427-423	c 27	N82-29453 *	#
US-PATENT-CLASS-423-350	c 31	N80-18231 *	#	US-PATENT-CLASS-427-244	c 25	N82-21268 *	#	US-PATENT-CLASS-427-423	c 27	N83-31855 *	#
US-PATENT-CLASS-423-352	c 36	N76-18427 *	#	US-PATENT-CLASS-427-245	c 27	N80-23452 *	#	US-PATENT-CLASS-427-423	c 31	N83-35177 *	#
US-PATENT-CLASS-423-407	c 24	N76-14203 *	#	US-PATENT-CLASS-427-246	c 25	N82-21268 *	#	US-PATENT-CLASS-427-425	c 37	N82-24492 *	#
US-PATENT-CLASS-423-417	c 26	N80-14229 *	#	US-PATENT-CLASS-427-247	c 31	N83-35177 *	#	US-PATENT-CLASS-427-426	c 27	N76-15310 *	#
US-PATENT-CLASS-423-419P	c 25	N83-33977 *	#	US-PATENT-CLASS-427-248E	c 37	N78-13436 *	#	US-PATENT-CLASS-427-426	c 71	N84-16940 *	#
US-PATENT-CLASS-423-446	c 15	N73-19457 *	#	US-PATENT-CLASS-427-248J	c 44	N78-24609 *	#	US-PATENT-CLASS-427-427	c 24	N78-24290 *	#
US-PATENT-CLASS-423-447.2	c 24	N83-25789 *	#	US-PATENT-CLASS-427-248	c 44	N76-28635 *	#	US-PATENT-CLASS-427-429	c 27	N81-14078 *	#
US-PATENT-CLASS-423-447.6	c 24	N83-25789 *	#	US-PATENT-CLASS-427-249	c 44	N76-28635 *	#	US-PATENT-CLASS-427-436	c 33	N84-16456 *	#
US-PATENT-CLASS-423-447.7	c 24	N83-25789 *	#	US-PATENT-CLASS-427-249	c 44	N78-24609 *	#	US-PATENT-CLASS-427-437	c 33	N84-16456 *	#
US-PATENT-CLASS-423-539	c 25	N82-28368 *	#	US-PATENT-CLASS-427-250	c 12	N76-15189 *	#	US-PATENT-CLASS-427-443.2	c 25	N84-12262 *	#
US-PATENT-CLASS-423-540	c 25	N82-28368 *	#	US-PATENT-CLASS-427-250	c 44	N76-28635 *	#	US-PATENT-CLASS-427-44	c 74	N78-32854 *	#
US-PATENT-CLASS-423-542	c 25	N82-28368 *	#	US-PATENT-CLASS-427-250	c 37	N78-13436 *	#	US-PATENT-CLASS-427-44	c 27	N80-32516 *	#
US-PATENT-CLASS-423-579	c 46	N74-13011 *	#	US-PATENT-CLASS-427-253	c 27	N82-28441 *	#	US-PATENT-CLASS-427-47	c 44	N77-32583 *	#
US-PATENT-CLASS-423-579	c 25	N82-28368 *	#	US-PATENT-CLASS-427-255	c 37	N78-13436 *	#	US-PATENT-CLASS-427-4	c 51	N77-27677 *	#
US-PATENT-CLASS-423-581	c 25	N79-10162 *	#	US-PATENT-CLASS-427-261	c 44	N78-25527 *	#	US-PATENT-CLASS-427-531	c 44	N82-28780 *	#
US-PATENT-CLASS-423-582	c 26	N78-32229 *	#	US-PATENT-CLASS-427-261	c 44	N79-11472 *	#	US-PATENT-CLASS-427-57	c 71	N84-16940 *	#
US-PATENT-CLASS-423-583	c 26	N78-32229 *	#	US-PATENT-CLASS-427-270	c 27	N76-16229 *	#	US-PATENT-CLASS-427-58	c 33	N84-16456 *	#
US-PATENT-CLASS-423-600	c 25	N83-33977 *	#	US-PATENT-CLASS-427-275	c 27	N76-16229 *	#	US-PATENT-CLASS-427-6	c 71	N84-16940 *	#
US-PATENT-CLASS-423-625	c 15	N73-19457 *	#	US-PATENT-CLASS-427-287	c 27	N78-16229 *	#	US-PATENT-CLASS-427-74	c 44	N82-28780 *	#
US-PATENT-CLASS-423-625	c 26	N80-14229 *	#	US-PATENT-CLASS-427-292	c 24	N79-17916 *	#	US-PATENT-CLASS-427-75	c 44	N78-25527 *	#
US-PATENT-CLASS-423-644	c 36	N76-18427 *	#	US-PATENT-CLASS-427-292	c 24	N83-13172 *	#	US-PATENT-CLASS-427-75	c 44	N79-11468 *	#
US-PATENT-CLASS-423-648R	c 44	N77-22607 *	#	US-PATENT-CLASS-427-294	c 27	N79-14214 *	#	US-PATENT-CLASS-427-75	c 44	N79-11472 *	#
US-PATENT-CLASS-423-648R	c 28	N78-24365 *	#	US-PATENT-CLASS-427-302	c 74	N78-32854 *	#	US-PATENT-CLASS-427-75	c 33	N84-16456 *	#
US-PATENT-CLASS-423-648R	c 28										

US-PATENT-CLASS-427-95	c 25	N79-28253 *	US-PATENT-CLASS-428-341	c 27	N78-32260 *	US-PATENT-CLASS-428-593	c 24	N84-11214 *
US-PATENT-CLASS-427-96	c 33	N84-16456 *	US-PATENT-CLASS-428-347	c 27	N84-14323 *	US-PATENT-CLASS-428-594	c 24	N82-24296 *
US-PATENT-CLASS-428-109	c 27	N76-14264 *	US-PATENT-CLASS-428-35	c 34	N77-18382 *	US-PATENT-CLASS-428-594	c 24	N82-32417 *
US-PATENT-CLASS-428-109	c 33	N79-12331 *	US-PATENT-CLASS-428-366	c 24	N79-24062 *	US-PATENT-CLASS-428-604	c 24	N82-24296 *
US-PATENT-CLASS-428-113	c 24	N81-14000 *	US-PATENT-CLASS-428-367	c 27	N81-27272 *	US-PATENT-CLASS-428-604	c 24	N82-32417 *
US-PATENT-CLASS-428-114	c 24	N81-13999 *	US-PATENT-CLASS-428-367	c 24	N83-33950 *	US-PATENT-CLASS-428-607	c 24	N82-32417 *
US-PATENT-CLASS-428-114	c 24	N81-14000 *	US-PATENT-CLASS-428-367	c 27	N84-14322 *	US-PATENT-CLASS-428-608	c 24	N82-32417 *
US-PATENT-CLASS-428-116	c 24	N78-10214 *	US-PATENT-CLASS-428-368	c 24	N77-27188 *	US-PATENT-CLASS-428-623	c 27	N83-31855 *
US-PATENT-CLASS-428-116	c 24	N78-17149 *	US-PATENT-CLASS-428-368	c 24	N83-18908 *	US-PATENT-CLASS-428-629	c 44	N80-16452 *
US-PATENT-CLASS-428-117	c 37	N76-24575 *	US-PATENT-CLASS-428-375	c 24	N79-16915 *	US-PATENT-CLASS-428-632	c 26	N81-25188 *
US-PATENT-CLASS-428-117	c 24	N78-15180 *	US-PATENT-CLASS-428-375	c 24	N83-33950 *	US-PATENT-CLASS-428-633	c 34	N78-18355 *
US-PATENT-CLASS-428-117	c 24	N79-16915 *	US-PATENT-CLASS-428-392	c 24	N83-33950 *	US-PATENT-CLASS-428-633	c 27	N83-31855 *
US-PATENT-CLASS-428-119	c 24	N79-16915 *	US-PATENT-CLASS-428-406	c 27	N78-32260 *	US-PATENT-CLASS-428-63	c 24	N83-13172 *
US-PATENT-CLASS-428-133	c 37	N79-10422 *	US-PATENT-CLASS-428-408	c 27	N81-27272 *	US-PATENT-CLASS-428-641	c 26	N83-31795 *
US-PATENT-CLASS-428-137	c 24	N79-25142 *	US-PATENT-CLASS-428-408	c 27	N84-14322 *	US-PATENT-CLASS-428-650	c 44	N80-16452 *
US-PATENT-CLASS-428-138	c 24	N78-10214 *	US-PATENT-CLASS-428-411	c 27	N84-14323 *	US-PATENT-CLASS-428-650	c 26	N83-31795 *
US-PATENT-CLASS-428-139	c 23	N81-29160 *	US-PATENT-CLASS-428-411	c 27	N78-14164 *	US-PATENT-CLASS-428-652	c 34	N78-18355 *
US-PATENT-CLASS-428-140	c 24	N81-14000 *	US-PATENT-CLASS-428-411	c 27	N78-31233 *	US-PATENT-CLASS-428-652	c 44	N80-16452 *
US-PATENT-CLASS-428-141	c 24	N77-28225 *	US-PATENT-CLASS-428-411	c 27	N79-14214 *	US-PATENT-CLASS-428-658	c 44	N80-16452 *
US-PATENT-CLASS-428-141	c 27	N82-28440 *	US-PATENT-CLASS-428-412	c 27	N76-16230 *	US-PATENT-CLASS-428-667	c 34	N78-18355 *
US-PATENT-CLASS-428-141	c 27	N82-33521 *	US-PATENT-CLASS-428-412	c 27	N78-31233 *	US-PATENT-CLASS-428-667	c 44	N78-19599 *
US-PATENT-CLASS-428-161	c 24	N77-28225 *	US-PATENT-CLASS-428-412	c 74	N78-32854 *	US-PATENT-CLASS-428-675	c 44	N80-16452 *
US-PATENT-CLASS-428-189	c 27	N79-12221 *	US-PATENT-CLASS-428-412	c 27	N79-18052 *	US-PATENT-CLASS-428-678	c 26	N81-25188 *
US-PATENT-CLASS-428-192	c 27	N82-24339 *	US-PATENT-CLASS-428-413	c 27	N76-16230 *	US-PATENT-CLASS-428-678	c 27	N83-31855 *
US-PATENT-CLASS-428-193	c 27	N82-24339 *	US-PATENT-CLASS-428-413	c 15	N79-26100 *	US-PATENT-CLASS-428-679	c 44	N81-25188 *
US-PATENT-CLASS-428-202	c 27	N84-14323 *	US-PATENT-CLASS-428-413	c 24	N81-14000 *	US-PATENT-CLASS-428-680	c 26	N80-16452 *
US-PATENT-CLASS-428-212	c 27	N76-14264 *	US-PATENT-CLASS-428-414	c 15	N79-26100 *	US-PATENT-CLASS-428-680	c 26	N81-25188 *
US-PATENT-CLASS-428-212	c 27	N79-12221 *	US-PATENT-CLASS-428-416	c 27	N76-14264 *	US-PATENT-CLASS-428-680	c 26	N83-31795 *
US-PATENT-CLASS-428-212	c 27	N82-29456 *	US-PATENT-CLASS-428-418	c 24	N77-27188 *	US-PATENT-CLASS-428-71	c 24	N78-15180 *
US-PATENT-CLASS-428-214	c 27	N76-14264 *	US-PATENT-CLASS-428-418	c 15	N79-26100 *	US-PATENT-CLASS-428-73	c 24	N78-10214 *
US-PATENT-CLASS-428-218	c 27	N82-29456 *	US-PATENT-CLASS-428-421	c 34	N77-18382 *	US-PATENT-CLASS-428-73	c 24	N78-15180 *
US-PATENT-CLASS-428-218	c 24	N83-13171 *	US-PATENT-CLASS-428-421	c 15	N79-26100 *	US-PATENT-CLASS-428-77	c 27	N79-16915 *
US-PATENT-CLASS-428-220	c 15	N79-26100 *	US-PATENT-CLASS-428-421	c 27	N80-24437 *	US-PATENT-CLASS-428-77	c 27	N76-14264 *
US-PATENT-CLASS-428-241	c 27	N82-24339 *	US-PATENT-CLASS-428-421	c 76	N83-34796 *	US-PATENT-CLASS-428-77	c 27	N79-12221 *
US-PATENT-CLASS-428-241	c 27	N83-18908 *	US-PATENT-CLASS-428-422	c 27	N78-31233 *	US-PATENT-CLASS-428-78	c 27	N84-14323 *
US-PATENT-CLASS-428-242	c 27	N82-24339 *	US-PATENT-CLASS-428-422	c 76	N83-34796 *	US-PATENT-CLASS-428-902	c 24	N77-27188 *
US-PATENT-CLASS-428-244	c 27	N83-18908 *	US-PATENT-CLASS-428-425	c 24	N77-28225 *	US-PATENT-CLASS-428-902	c 24	N78-10214 *
US-PATENT-CLASS-428-245	c 27	N82-24339 *	US-PATENT-CLASS-428-426	c 74	N78-15879 *	US-PATENT-CLASS-428-902	c 24	N78-17149 *
US-PATENT-CLASS-428-245	c 27	N83-18908 *	US-PATENT-CLASS-428-427	c 27	N78-32260 *	US-PATENT-CLASS-428-902	c 24	N81-14000 *
US-PATENT-CLASS-428-246	c 27	N84-14322 *	US-PATENT-CLASS-428-427	c 44	N83-34448 *	US-PATENT-CLASS-428-902	c 31	N81-25258 *
US-PATENT-CLASS-428-247	c 33	N79-12331 *	US-PATENT-CLASS-428-428	c 27	N76-22377 *	US-PATENT-CLASS-428-902	c 27	N81-27272 *
US-PATENT-CLASS-428-247	c 33	N82-26571 *	US-PATENT-CLASS-428-428	c 27	N76-23426 *	US-PATENT-CLASS-428-902	c 27	N83-18908 *
US-PATENT-CLASS-428-251	c 27	N82-24339 *	US-PATENT-CLASS-428-428	c 74	N78-15879 *	US-PATENT-CLASS-428-902	c 24	N83-33950 *
US-PATENT-CLASS-428-257	c 27	N82-24339 *	US-PATENT-CLASS-428-428	c 27	N78-32260 *	US-PATENT-CLASS-428-902	c 27	N84-14322 *
US-PATENT-CLASS-428-258	c 33	N79-12331 *	US-PATENT-CLASS-428-428	c 44	N83-34448 *	US-PATENT-CLASS-428-903	c 24	N83-33950 *
US-PATENT-CLASS-428-259	c 33	N79-12331 *	US-PATENT-CLASS-428-446	c 27	N78-32260 *	US-PATENT-CLASS-428-911	c 24	N76-16230 *
US-PATENT-CLASS-428-260	c 27	N81-27272 *	US-PATENT-CLASS-428-446	c 27	N82-29456 *	US-PATENT-CLASS-428-911	c 27	N77-27188 *
US-PATENT-CLASS-428-260	c 27	N82-24339 *	US-PATENT-CLASS-428-447	c 27	N76-16230 *	US-PATENT-CLASS-428-913	c 34	N78-25350 *
US-PATENT-CLASS-428-260	c 27	N83-18908 *	US-PATENT-CLASS-428-447	c 27	N78-31233 *	US-PATENT-CLASS-428-913	c 27	N83-18908 *
US-PATENT-CLASS-428-260	c 27	N84-14322 *	US-PATENT-CLASS-428-447	c 27	N78-32854 *	US-PATENT-CLASS-428-920	c 27	N76-16230 *
US-PATENT-CLASS-428-263	c 27	N82-16238 *	US-PATENT-CLASS-428-447	c 74	N79-12221 *	US-PATENT-CLASS-428-920	c 27	N76-23426 *
US-PATENT-CLASS-428-264	c 27	N82-16238 *	US-PATENT-CLASS-428-447	c 27	N79-18052 *	US-PATENT-CLASS-428-920	c 24	N78-15180 *
US-PATENT-CLASS-428-265	c 27	N82-16238 *	US-PATENT-CLASS-428-447	c 27	N79-25142 *	US-PATENT-CLASS-428-920	c 27	N82-32260 *
US-PATENT-CLASS-428-266	c 27	N82-24339 *	US-PATENT-CLASS-428-447	c 24	N82-24339 *	US-PATENT-CLASS-428-920	c 27	N79-12221 *
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US-PATENT-CLASS-428-272	c 27	N82-16238 *	US-PATENT-CLASS-428-448	c 27	N82-24339 *	US-PATENT-CLASS-428-920	c 15	N79-26100 *
US-PATENT-CLASS-428-280	c 27	N79-12221 *	US-PATENT-CLASS-428-450	c 27	N76-16229 *	US-PATENT-CLASS-428-920	c 27	N81-27272 *
US-PATENT-CLASS-428-282	c 24	N79-25142 *	US-PATENT-CLASS-428-450	c 27	N76-22377 *	US-PATENT-CLASS-428-920	c 27	N83-18908 *
US-PATENT-CLASS-428-283	c 24	N82-29362 *	US-PATENT-CLASS-428-450	c 27	N76-23426 *	US-PATENT-CLASS-428-920	c 27	N84-14322 *
US-PATENT-CLASS-428-283	c 27	N82-29456 *	US-PATENT-CLASS-428-450	c 27	N79-12221 *	US-PATENT-CLASS-428-921	c 27	N76-16230 *
US-PATENT-CLASS-428-284	c 24	N82-29362 *	US-PATENT-CLASS-428-450	c 26	N83-31795 *	US-PATENT-CLASS-428-921	c 24	N78-27180 *
US-PATENT-CLASS-428-285	c 27	N79-12221 *	US-PATENT-CLASS-428-451	c 27	N79-18052 *	US-PATENT-CLASS-428-921	c 24	N81-13999 *
US-PATENT-CLASS-428-286	c 27	N79-12221 *	US-PATENT-CLASS-428-457	c 24	N76-16229 *	US-PATENT-CLASS-428-922	c 27	N78-14164 *
US-PATENT-CLASS-428-286	c 24	N82-29362 *	US-PATENT-CLASS-428-457	c 27	N77-27188 *	US-PATENT-CLASS-428-938	c 27	N82-28441 *
US-PATENT-CLASS-428-287	c 24	N82-29362 *	US-PATENT-CLASS-428-457	c 24	N77-28225 *	US-PATENT-CLASS-428-938	c 34	N78-25350 *
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US-PATENT-4,038,705	c 54	N77-30749 *	#	US-PATENT-4,065,202	c 35	N78-17357 *	#	US-PATENT-4,094,943	c 27	N78-32262 *	#
US-PATENT-4,039-489	c 27	N77-31308 *	#	US-PATENT-4,065,340	c 24	N78-17150 *	#	US-PATENT-4,095,593	c 54	N78-32721 *	#
US-PATENT-4,039-846	c 35	N77-30436 *	#	US-PATENT-4,065,345	c 27	N78-17205 *	#	US-PATENT-4,096,315	c 74	N78-32854 *	#
US-PATENT-4,039,000	c 34	N77-30399 *	#	US-PATENT-4,066,039	c 37	N78-17383 *	#	US-PATENT-4,097,184	c 07	N78-33101 *	#
US-PATENT-4,039,347	c 27	N77-30237 *	#	US-PATENT-4,067,015	c 17	N78-17140 *	#	US-PATENT-4,098,142	c 37	N79-10422 *	#
US-PATENT-4,039,754	c 32	N77-30309 *	#	US-PATENT-4,067,043	c 74	N78-17865 *	#	US-PATENT-4,099,799	c 37	N79-10418 *	#
US-PATENT-4,039,925	c 33	N77-30365 *	#	US-PATENT-4,067,653	c 74	N78-17867 *	#	US-PATENT-4,100,331	c 44	N79-10513 *	#
US-PATENT-4,040,041	c 33	N77-31404 *	#	US-PATENT-4,067,742	c 27	N78-17206 *	#	US-PATENT-4,100,487	c 33	N79-10337 *	#
US-PATENT-4,040,750	c 35	N77-31465 *	#	US-PATENT-4,068,469	c 07	N78-17055 *	#	US-PATENT-4,100,531	c 32	N79-10263 *	#
US-PATENT-4,040,867	c 44	N77-31601 *	#	US-PATENT-4,068,470	c 07	N78-17056 *	#	US-PATENT-4,101,195	c 89	N79-10969 *	#
US-PATENT-4,040,940	c 37	N80-14397 *	#	US-PATENT-4,068,495	c 31	N78-17237 *	#	US-PATENT-4,101,644	c 25	N79-10162 *	#
US-PATENT-4,041,233	c 27	N77-30236 *	#	US-PATENT-4,068,763	c 54	N78-17676 *	#	US-PATENT-4,101,780	c 35	N79-10389 *	#
US-PATENT-4,041,391	c 32	N77-30308 *	#	US-PATENT-4,069,028	c 34	N78-17335 *	#	US-PATENT-4,101,891	c 35	N79-10391 *	#
US-PATENT-4,041,697	c 37	N78-10467 *	#	US-PATENT-4,069,212	c 27	N78-17213 *	#	US-PATENT-4,101,961	c 52	N79-10724 *	#
US-PATENT-4,041,910	c 37	N77-31497 *	#	US-PATENT-4,069,478	c 60	N78-17691 *	#	US-PATENT-4,102,580	c 74	N79-11865 *	#
US-PATENT-4,042,926	c 32	N77-31350 *	#	US-PATENT-4,069,661	c 07	N78-18067 *	#	US-PATENT-4,103,550	c 31	N79-11246 *	#
US-PATENT-4,043,674	c 36	N77-32478 *	#	US-PATENT-4,070,574	c 74	N78-18905 *	#	US-PATENT-4,103,619	c 28	N79-11231 *	#
US-PATENT-4,044,753	c 44	N77-32582 *	#	US-PATENT-4,072,532	c 27	N78-19302 *	#	US-PATENT-4,103,712	c 37	N79-11420 *	#
US-PATENT-4,044,821	c 44	N77-32581 *	#	US-PATENT-4,075,057	c 73	N78-19920 *	#	US-PATENT-4,104,018	c 25	N79-11151 *	#
US-PATENT-4,045,063	c 37	N77-32499 *	#	US-PATENT-4,077,231	c 31	N78-25256 *	#	US-PATENT-4,104,084	c 44	N79-11467 *	#
US-PATENT-4,045,149	c 07	N77-32148 *	#	US-PATENT-4,077,678	c 44	N78-24608 *	#	US-PATENT-4,104,091	c 44	N79-11468 *	#
US-PATENT-4,045,247	c 35	N77-32454 *	#	US-PATENT-4,077,788	c 28	N78-24365 *	#	US-PATENT-4,104,134	c 44	N79-11469 *	#
US-PATENT-4,045,255	c 26	N77-32279 *	#	US-PATENT-4,077,788	c 28	N81-14103 *	#	US-PATENT-4,104,134	c 44	N80-16452 *	#
US-PATENT-4,045,315	c 44	N77-32580 *	#	US-PATENT-4,077,813	c 26	N78-24333 *	#	US-PATENT-4,104,873	c 37	N79-11403 *	#
US-PATENT-4,045,359	c 25	N77-32255 *	#	US-PATENT-4,077,818	c 44	N78-24609 *	#	US-PATENT-4,105,261	c 37	N79-11404 *	#
US-PATENT-4,045,728	c 35	N77-32455 *	#	US-PATENT-4,077,921	c 24	N78-24290 *	#	US-PATENT-4,105,517	c 44	N79-11470 *	#
US-PATENT-4,045,792	c 60	N77-32731 *	#	US-PATENT-4,078,110	c 34	N78-25350 *	#	US-PATENT-4,105,966	c 33	N79-11315 *	#
US-PATENT-4,045,795	c 32	N77-32342 *	#	US-PATENT-4,078,175	c 76	N78-24950 *	#	US-PATENT-4,106,218	c 74	N79-13855 *	#
US-PATENT-4,046,012	c 35	N77-32456 *	#	US-PATENT-4,078,290	c 37	N78-24544 *	#	US-PATENT-4,106,587	c 71	N79-14871 *	#
US-PATENT-4,046,190	c 34	N77-32413 *	#	US-PATENT-4,078,378	c 37	N78-24545 *	#	US-PATENT-4,106,687	c 37	N79-13364 *	#
US-PATENT-4,046,262	c 54	N77-32721 *	#	US-PATENT-4,079,268	c 32	N78-24391 *	#	US-PATENT-4,107,363	c 33	N79-12331 *	#
US-PATENT-4,046,434	c 37	N77-32500 *	#	US-PATENT-4,080,901	c 20	N78-24275 *	#	US-PATENT-4,107,627	c 72	N79-13826 *	#
US-PATENT-4,046,435	c 37	N77-32501 *	#	US-PATENT-4,081,250	c 44	N78-31527 *	#	US-PATENT-4,107,919	c 34	N79-13288 *	#
US-PATENT-4,046,462	c 44	N77-32583 *	#	US-PATENT-4,082,001	c 35	N78-24515 *	#	US-PATENT-4,108,241	c 34	N79-13289 *	#
US-PATENT-4,046,529	c 54	N77-32722 *	#	US-PATENT-4,082,569	c 44	N78-25527 *	#	US-PATENT-4,109,213	c 33	N79-22373 *	#
US-PATENT-4,046,560	c 26	N77-32280 *	#	US-PATENT-4,083,097	c 44	N78-25528 *	#	US-PATENT-4,109,644	c 52	N79-18580 *	#
US-PATENT-4,046,617	c 76	N77-32919 *	#	US-PATENT-4,083,181	c 07	N78-25089 *	#	US-PATENT-4,110,683	c 33	N79-18193 *	#
US-PATENT-4,046,819	c 27	N77-32308 *	#	US-PATENT-4,083,380	c 37	N78-25426 *	#	US-PATENT-4,110,703	c 36	N79-18307 *	#
US-PATENT-4,047,840	c 37	N78-10468 *	#	US-PATENT-4,083,520	c 15	N78-25119 *	#	US-PATENT-4,111,041	c 35	N79-14345 *	#
US-PATENT-4,051,558	c 52	N78-10686 *	#	US-PATENT-4,083,765	c 35	N78-25391 *	#	US-PATENT-4,111,058	c 35	N79-14347 *	#
US-PATENT-4,051,834	c 44	N78-10554 *	#	US-PATENT-4,084,124	c 44	N78-25531 *	#	US-PATENT-4,111,068	c 37	N79-14382 *	#
US-PATENT-4,051,877	c 35	N78-10428 *	#	US-PATENT-4,084,132	c 33	N78-25319 *	#	US-PATENT-4,111,184	c 44	N79-14526 *	#
US-PATENT-4,052,144	c 25	N78-10224 *	#	US-PATENT-4,084,612	c 34	N78-25351 *	#	US-PATENT-4,111,718	c 35	N79-14346 *	#
US-PATENT-4,052,181	c 71	N78-10837 *	#	US-PATENT-4,084,825	c 07	N78-25090 *	#	US-PATENT-4,111,729	c 28	N79-14228 *	#
US-PATENT-4,052,302	c 25	N78-10225 *	#	US-PATENT-4,084,985	c 44	N78-25529 *	#	US-PATENT-4,111,775	c 76	N79-14906 *	#
US-PATENT-4,052,523	c 24	N78-10214 *	#	US-PAT							

US-PATENT-4,117,881	c 51	N79-10694 *	#	US-PATENT-4,149,665	c 44	N79-24431 *	#	US-PATENT-4,188,368	c 31	N80-18231 *	#
US-PATENT-4,118,014	c 37	N79-10420 *	#	US-PATENT-4,149,817	c 44	N79-24432 *	#	US-PATENT-4,188,823	c 02	N80-20224 *	#
US-PATENT-4,118,315	c 51	N79-10693 *	#	US-PATENT-4,149,938	c 25	N79-24073 *	#	US-PATENT-4,189,234	c 74	N80-21138 *	#
US-PATENT-4,118,427	c 27	N80-32514 *	#	US-PATENT-4,150,425	c 33	N79-24254 *	#	US-PATENT-4,189,675	c 32	N80-20448 *	#
US-PATENT-4,118,620	c 37	N79-10421 *	#	US-PATENT-4,151,086	c 34	N79-24285 *	#	US-PATENT-4,189,914	c 07	N81-29129 *	#
US-PATENT-4,118,665	c 33	N79-10338 *	#	US-PATENT-4,151,456	c 33	N79-23345 *	#	US-PATENT-4,190,060	c 52	N81-29763 *	#
US-PATENT-4,118,666	c 32	N79-10262 *	#	US-PATENT-4,151,612	c 54	N79-24651 *	#	US-PATENT-4,190,626	c 24	N81-29163 *	#
US-PATENT-4,118,671	c 33	N79-10339 *	#	US-PATENT-4,151,800	c 24	N79-25142 *	#	US-PATENT-4,191,159	c 37	N80-29703 *	#
US-PATENT-4,118,701	c 32	N79-10264 *	#	US-PATENT-4,152,194	c 76	N79-23798 *	#	US-PATENT-4,191,505	c 44	N80-21828 *	#
US-PATENT-4,119,581	c 27	N81-14076 *	#	US-PATENT-4,153,134	c 46	N79-23555 *	#	US-PATENT-4,191,893	c 44	N80-29834 *	#
US-PATENT-4,119,926	c 33	N79-11313 *	#	US-PATENT-4,153,476	c 44	N79-25482 *	#	US-PATENT-4,192,290	c 44	N80-20810 *	#
US-PATENT-4,119,964	c 32	N79-11265 *	#	US-PATENT-4,153,818	c 32	N79-23310 *	#	US-PATENT-4,192,910	c 33	N80-20487 *	#
US-PATENT-4,119,972	c 32	N79-11264 *	#	US-PATENT-4,154,084	c 43	N79-25443 *	#	US-PATENT-4,192,910	c 44	N81-29524 *	#
US-PATENT-4,119,996	c 33	N79-12321 *	#	US-PATENT-4,154,228	c 52	N79-27838 *	#	US-PATENT-4,192,994	c 74	N80-21140 *	#
US-PATENT-4,121,965	c 76	N79-11920 *	#	US-PATENT-4,154,230	c 52	N79-26771 *	#	US-PATENT-4,193,388	c 44	N80-20808 *	#
US-PATENT-4,121,995	c 25	N79-11152 *	#	US-PATENT-4,154,256	c 05	N79-24976 *	#	US-PATENT-4,193,435	c 37	N80-23653 *	#
US-PATENT-4,122,214	c 44	N79-11472 *	#	US-PATENT-4,154,501	c 33	N81-29342 *	#	US-PATENT-4,193,570	c 35	N80-21719 *	#
US-PATENT-4,122,334	c 74	N79-12890 *	#	US-PATENT-4,154,912	c 44	N79-25481 *	#	US-PATENT-4,193,693	c 35	N80-20563 *	#
US-PATENT-4,122,383	c 44	N79-12541 *	#	US-PATENT-4,155,475	c 24	N79-25143 *	#	US-PATENT-4,193,827	c 28	N80-20402 *	#
US-PATENT-4,122,454	c 32	N79-13214 *	#	US-PATENT-4,156,309	c 44	N79-26475 *	#	US-PATENT-4,193,827	c 28	N81-14103 *	#
US-PATENT-4,122,518	c 52	N79-12694 *	#	US-PATENT-4,156,548	c 35	N79-26372 *	#	US-PATENT-4,194,115	c 25	N80-20334 *	#
US-PATENT-4,122,712	c 34	N79-12359 *	#	US-PATENT-4,156,752	c 15	N79-26100 *	#	US-PATENT-4,195,244	c 35	N80-20559 *	#
US-PATENT-4,122,725	c 38	N79-14398 *	#	US-PATENT-4,156,971	c 43	N79-26439 *	#	US-PATENT-4,195,279	c 35	N80-20560 *	#
US-PATENT-4,122,816	c 37	N79-11405 *	#	US-PATENT-4,157,655	c 43	N80-14423 *	#	US-PATENT-4,195,512	c 43	N80-23711 *	#
US-PATENT-4,122,833	c 44	N79-11471 *	#	US-PATENT-4,157,718	c 52	N80-14684 *	#	US-PATENT-4,195,666	c 37	N80-23654 *	#
US-PATENT-4,122,991	c 18	N79-11108 *	#	US-PATENT-4,158,583	c 28	N79-28342 *	#	US-PATENT-4,196,129	c 27	N80-32515 *	#
US-PATENT-4,123,355	c 45	N79-12584 *	#	US-PATENT-4,158,742	c 12	N79-26075 *	#	US-PATENT-4,196,619	c 46	N80-24906 *	#
US-PATENT-4,124,180	c 05	N79-12061 *	#	US-PATENT-4,158,775	c 72	N80-14877 *	#	US-PATENT-4,196,840	c 37	N80-23655 *	#
US-PATENT-4,124,330	c 07	N79-14095 *	#	US-PATENT-4,158,895	c 52	N79-26772 *	#	US-PATENT-4,197,530	c 33	N80-23559 *	#
US-PATENT-4,124,732	c 27	N79-12221 *	#	US-PATENT-4,159,262	c 27	N79-28307 *	#	US-PATENT-4,198,209	c 28	N80-23471 *	#
US-PATENT-4,128,814	c 36	N79-14362 *	#	US-PATENT-4,159,366	c 44	N79-26474 *	#	US-PATENT-4,198,232	c 26	N80-23419 *	#
US-PATENT-4,129,357	c 74	N79-14891 *	#	US-PATENT-4,159,634	c 37	N79-28550 *	#	US-PATENT-4,198,788	c 74	N80-24149 *	#
US-PATENT-4,130,032	c 37	N79-14383 *	#	US-PATENT-4,160,254	c 33	N79-28416 *	#	US-PATENT-4,198,792	c 25	N80-23383 *	#
US-PATENT-4,130,112	c 52	N79-14751 *	#	US-PATENT-4,160,508	c 37	N79-28551 *	#	US-PATENT-4,198,988	c 52	N80-23969 *	#
US-PATENT-4,130,471	c 25	N79-14169 *	#	US-PATENT-4,160,601	c 35	N79-28527 *	#	US-PATENT-4,199,448	c 27	N80-23452 *	#
US-PATENT-4,130,490	c 33	N79-15245 *	#	US-PATENT-4,161,661	c 33	N79-28415 *	#	US-PATENT-4,199,650	c 27	N80-24437 *	#
US-PATENT-4,130,795	c 35	N79-14349 *	#	US-PATENT-4,161,731	c 31	N79-28370 *	#	US-PATENT-4,199,764	c 32	N80-23524 *	#
US-PATENT-4,131,336	c 44	N79-14529 *	#	US-PATENT-4,161,747	c 37	N79-28549 *	#	US-PATENT-4,199,937	c 34	N80-24573 *	#
US-PATENT-4,131,459	c 27	N79-14213 *	#	US-PATENT-4,162,169	c 24	N79-31347 *	#	US-PATENT-4,199,937	c 44	N81-24519 *	#
US-PATENT-4,131,486	c 44	N79-14528 *	#	US-PATENT-4,162,701	c 34	N79-31523 *	#	US-PATENT-4,200,721	c 27	N80-24438 *	#
US-PATENT-4,132,068	c 07	N79-14097 *	#	US-PATENT-4,162,928	c 44	N79-31753 *	#	US-PATENT-4,201,468	c 32	N80-24510 *	#
US-PATENT-4,132,069	c 07	N79-14096 *	#	US-PATENT-4,163,678	c 44	N79-31752 *	#	US-PATENT-4,203,723	c 27	N80-26446 *	#
US-PATENT-4,132,130	c 44	N79-14527 *	#	US-PATENT-4,164,079	c 09	N79-31228 *	#	US-PATENT-4,204,037	c 51	N80-27067 *	#
US-PATENT-4,132,375	c 08	N79-14108 *	#	US-PATENT-4,164,718	c 32	N80-14281 *	#	US-PATENT-4,204,154	c 33	N80-26599 *	#
US-PATENT-4,132,594	c 52	N79-14749 *	#	US-PATENT-4,165,460	c 43	N79-31706 *	#	US-PATENT-4,204,402	c 07	N80-26298 *	#
US-PATENT-4,132,599	c 52	N79-14750 *	#	US-PATENT-4,166,170	c 27	N79-33316 *	#	US-PATENT-4,204,544	c 52	N80-27072 *	#
US-PATENT-4,132,829	c 27	N79-14214 *	#	US-PATENT-4,166,170	c 27	N81-14078 *	#	US-PATENT-4,204,899	c 24	N80-26388 *	#
US-PATENT-4,132,940	c 35	N79-14348 *	#	US-PATENT-4,166,959	c 74	N79-34011 *	#	US-PATENT-4,205,229	c 35	N80-26635 *	#
US-PATENT-4,132,989	c 32	N79-14268 *	#	US-PATENT-4,167,111	c 46	N80-10709 *	#	US-PATENT-4,206,383	c 72	N80-27163 *	#
US-PATENT-4,133,697	c 44	N79-17314 *	#	US-PATENT-4,168,267	c 27	N80-10358 *	#	US-PATENT-4,206,713	c 31	N81-15154 *	#
US-PATENT-4,133,697	c 44	N80-14474 *	#	US-PATENT-4,168,483	c 39	N80-10507 *	#	US-PATENT-4,206,970	c 74	N80-27185 *	#
US-PATENT-4,133,941	c 44	N79-17313 *	#	US-PATENT-4,168,706	c 54	N80-10799 *	#	US-PATENT-4,207,024	c 37	N80-26658 *	#
US-PATENT-4,133,941	c 25	N82-21268 *	#	US-PATENT-4,168,718	c 20	N80-10278 *	#	US-PATENT-4,207,024	c 37	N82-19540 *	#
US-PATENT-4,134,447	c 31	N79-17029 *	#	US-PATENT-4,168,939	c 05	N80-14107 *	#	US-PATENT-4,209,393	c 45	N82-11634 *	#
US-PATENT-4,134,683	c 43	N79-17288 *	#	US-PATENT-4,169,129	c 37	N80-10494 *	#	US-PATENT-4,209,561	c 24	N81-13999 *	#
US-PATENT-4,134,744	c 35	N79-17192 *	#	US-PATENT-4,170,776	c 46	N80-14603 *	#	US-PATENT-4,210,278	c 31	N80-32583 *	#
US-PATENT-4,134,786	c 85	N79-17747 *	#	US-PATENT-4,170,987	c 52	N81-27783 *	#	US-PATENT-4,210,401	c 35	N80-28687 *	#
US-PATENT-4,135,019	c 24	N79-16915 *	#	US-PATENT-4,171,615	c 20	N80-14188 *	#	US-PATENT-4,210,474	c 28	N80-28536 *	#
US-PATENT-4,135,127	c 33	N79-17133 *	#	US-PATENT-4,171,645	c 35	N80-14371 *	#	US-PATENT-4,210,622	c 44	N80-24741 *	#
US-PATENT-4,135,290	c 44	N79-18444 *	#	US-PATENT-4,172,228	c 33	N80-14332 *	#	US-PATENT-4,211,354	c 24	N81-17170 *	#
US-PATENT-4,135,367	c 44	N79-18443 *	#	US-PATENT-4,172,786	c 45	N80-14579 *	#	US-PATENT-4,211,354	c 24	N81-26179 *	#
US-PATENT-4,135,817	c 35	N79-18296 *	#	US-PATENT-4,172,883	c 26	N80-14229 *	#	US-PATENT-4,212,199	c 02	N80-28300 *	#
US-PATENT-4,135,851	c 37	N79-18318 *	#	US-PATENT-4,173,001	c 36	N80-14384 *	#	US-PATENT-4,212,297	c 51	N81-14605 *	#
US-PATENT-4,135,851	c 37	N80-26658 *	#	US-PATENT-4,173,324	c 37	N80-14398 *	#	US-PATENT-4,212,477	c 37	N80-28711 *	#
US-PATENT-4,135,851	c 37	N82-19540 *	#	US-PATENT-4,173,397	c 44	N80-14473 *	#	US-PATENT-4,212,477	c 37	N81-26447 *	#
US-PATENT-4,136,211	c 24	N79-17916 *	#	US-PATENT-4,173,820	c 44	N80-14474 *	#	US-PATENT-4,212,690	c 26	N80-28492 *	#
US-PATENT-4,137,010	c 05	N79-17847 *	#	US-PATENT-4,175,249	c 44	N80-14472 *	#	US-PATENT-4,213,051	c 35	N80-28686 *	#
US-PATENT-4,137,365	c 27	N79-18052 *	#	US-PATENT-4,176,007	c 51	N80-16714 *	#	US-PATENT-4,213,064	c 60	N81-15706 *	#
US-PATENT-4,139,291	c 74	N79-20856 *	#	US-PATENT-4,176,360	c 18	N80-14183 *	#	US-PATENT-4,213,131	c 32	N80-28578 *	#
US-PATENT-4,139,806	c 71	N79-20827 *	#	US-PATENT-4,176,662	c 52	N80-16725 *	#	US-PATENT-4,213,684	c 74	N81-17886 *	#
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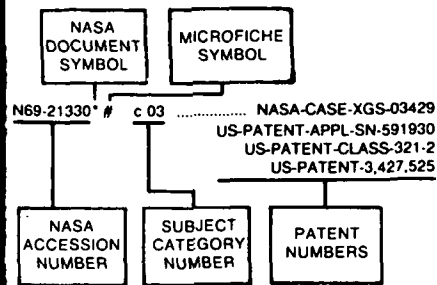
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N70-40309* #	c 30	NASA-CASE-XLA-00210 US-PATENT-APPL-SN-82658 US-PATENT-CLASS-343-18 US-PATENT-3,220,004	N70-41581* #	c 05	NASA-CASE-XAC-01404 US-PATENT-APPL-SN-363348 US-PATENT-CLASS-74-471 US-PATENT-3,295,386	N70-41812* #	c 14	NASA-CASE-XMS-03792 US-PATENT-APPL-SN-516159 US-PATENT-CLASS-200-61.45 US-PATENT-3,303,304
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N70-40354* #	c 15	NASA-CASE-XMF-01045 US-PATENT-APPL-SN-355130 US-PATENT-CLASS-188-1 US-PATENT-3,228,492	N70-41583* #	c 18	NASA-CASE-XMF-01030 US-PATENT-APPL-SN-317389 US-PATENT-CLASS-161-115 US-PATENT-3,296,060	N70-41819* #	c 05	NASA-CASE-XAC-00405 US-PATENT-APPL-SN-158916 US-PATENT-CLASS-128-1 US-PATENT-3,302,633
N70-40367* #	c 28	NASA-CASE-XLE-00177 US-PATENT-APPL-SN-10812 US-PATENT-CLASS-60-35.3 US-PATENT-3,045,424	N70-41588* #	c 31	NASA-CASE-XMF-01973 US-PATENT-APPL-SN-375682 US-PATENT-CLASS-244-1 US-PATENT-3,295,790	N70-41829* #	c 15	NASA-CASE-XMF-01371 US-PATENT-APPL-SN-353634 US-PATENT-CLASS-287-119 US-PATENT-3,302,960
N70-40400* #	c 14	NASA-CASE-XAC-00648 US-PATENT-APPL-SN-216939 US-PATENT-CLASS-73-147 US-PATENT-3,218,850	N70-41589* #	c 02	NASA-CASE-XMF-01174 US-PATENT-APPL-SN-410331 US-PATENT-CLASS-244-100 US-PATENT-3,295,798	N70-41855* #	c 31	NASA-CASE-XNP-02982 US-PATENT-APPL-SN-388966 US-PATENT-CLASS-244-1 US-PATENT-3,304,028
N70-41275* #	c 28	NASA-CASE-XNP-01390 US-PATENT-APPL-SN-424157 US-PATENT-CLASS-60-259 US-PATENT-3,300,981	N70-41628* #	c 25	NASA-CASE-XAC-00319 US-PATENT-APPL-SN-77251 US-PATENT-CLASS-315-111 US-PATENT-3,229,155	N70-41856* #	c 21	NASA-CASE-XNP-01307 US-PATENT-APPL-SN-390250 US-PATENT-CLASS-244-1 US-PATENT-3,286,953
N70-41297* #	c 05	NASA-CASE-XMS-01492 US-PATENT-APPL-SN-398131 US-PATENT-CLASS-55-35 US-PATENT-3,300,949	N70-41629* #	c 15	NASA-CASE-XGS-02441 US-PATENT-APPL-SN-411944 US-PATENT-CLASS-285-331 US-PATENT-3,301,578	N70-41863* #	c 02	NASA-CASE-XLA-01220 US-PATENT-APPL-SN-379417 US-PATENT-CLASS-244-16 US-PATENT-3,286,957
N70-41310* #	c 15	NASA-CASE-XNP-01567 US-PATENT-APPL-SN-448898 US-PATENT-CLASS-248-178 US-PATENT-3,295,808	N70-41630* #	c 02	NASA-CASE-XMS-00907 US-PATENT-APPL-SN-428890 US-PATENT-CLASS-244-138 US-PATENT-3,301,511	N70-41864* #	c 03	NASA-CASE-XGS-01419 US-PATENT-APPL-SN-323182 US-PATENT-CLASS-136-179 US-PATENT-3,287,174
N70-41311* #	c 28	NASA-CASE-XNP-00876 US-PATENT-APPL-SN-377784 US-PATENT-CLASS-60-251 US-PATENT-3,298,182	N70-41631* #	c 31	NASA-CASE-XMS-04142 US-PATENT-APPL-SN-422865 US-PATENT-CLASS-244-1 US-PATENT-3,301,507	N70-41871* #	c 31	NASA-CASE-XMS-04390 US-PATENT-APPL-SN-502729 US-PATENT-CLASS-62-45 US-PATENT-3,304,728
N70-41329* #	c 05	NASA-CASE-XMS-01615 US-PATENT-APPL-SN-329595 US-PATENT-CLASS-128-2.05 US-PATENT-3,298,362	N70-41646* #	c 15	NASA-CASE-XLE-01449 US-PATENT-APPL-SN-330209 US-PATENT-CLASS-137-197 US-PATENT-3,295,545	N70-41897* #	c 27	NASA-CASE-XNP-01749 US-PATENT-APPL-SN-440033 US-PATENT-CLASS-149-109 US-PATENT-3,305,810
N70-41330* #	c 14	NASA-CASE-XLE-00688 US-PATENT-APPL-SN-334672 US-PATENT-CLASS-73-32 US-PATENT-3,288,221	N70-41647* #	c 14	NASA-CASE-XGS-00769 US-PATENT-APPL-SN-319893 US-PATENT-CLASS-242-55.19 US-PATENT-3,295,782	N70-41922* #	c 28	NASA-CASE-XNP-02839 US-PATENT-APPL-SN-477333 US-PATENT-CLASS-60-202 US-PATENT-3,304,718
N70-41331* #	c 07	NASA-CASE-XLA-01400 US-PATENT-APPL-SN-363653 US-PATENT-CLASS-325-65 US-PATENT-3,296,531	N70-41655* #	c 09	NASA-CASE-XMF-00906 US-PATENT-APPL-SN-264731 US-PATENT-CLASS-324-113 US-PATENT-3,287,640	N70-41929* #	c 09	NASA-CASE-XNP-01951 US-PATENT-APPL-SN-413662 US-PATENT-CLASS-335-300 US-PATENT-3,305,810
N70-41332* #	c 14	NASA-CASE-XLA-00495 US-PATENT-APPL-SN-269215 US-PATENT-CLASS-324-70 US-PATENT-3,296,526	N70-41675* #	c 09	NASA-CASE-XMS-01315 US-PATENT-APPL-SN-347101 US-PATENT-CLASS-307-88.5 US-PATENT-3,302,040	N70-41930* #	c 21	NASA-CASE-XNP-01501 US-PATENT-APPL-SN-432027 US-PATENT-CLASS-343-12 US-PATENT-3,305,861
N70-41366* #	c 14	NASA-CASE-XLA-01353 US-PATENT-APPL-SN-403960 US-PATENT-CLASS-73-147 US-PATENT-3,301,046	N70-41676* #	c 14	NASA-CASE-XGS-01231 US-PATENT-APPL-SN-346356 US-PATENT-CLASS-250-71 US-PATENT-3,302,023	N70-41946* #	c 14	NASA-CASE-XLE-00011 US-PATENT-APPL-SN-735911 US-PATENT-CLASS-88-14 US-PATENT-2,960,002
N70-41367* #	c 32	NASA-CASE-XGS-00938 US-PATENT-APPL-SN-392970 US-PATENT-CLASS-214-1 US-PATENT-3,295,699	N70-41677* #	c 11	NASA-CASE-XMF-01772 US-PATENT-APPL-SN-370135 US-PATENT-CLASS-73-116 US-PATENT-3,295,366	N70-41948* #	c 31	NASA-CASE-XMF-01899 US-PATENT-APPL-SN-428882 US-PATENT-CLASS-60-257 US-PATENT-3,304,724
N70-41370* #	c 32	NASA-CASE-XNP-01962 US-PATENT-APPL-SN-369640 US-PATENT-CLASS-92-94 US-PATENT-3,298,285	N70-41678* #	c 07	NASA-CASE-XGS-02608 US-PATENT-APPL-SN-456578 US-PATENT-CLASS-343-18 US-PATENT-3,289,205	N70-41954* #	c 03	NASA-CASE-XAC-03392 US-PATENT-APPL-SN-430776 US-PATENT-CLASS-74-519 US-PATENT-3,304,799
N70-41371* #	c 15	NASA-CASE-XMF-01452 US-PATENT-APPL-SN-356692 US-PATENT-CLASS-29-271 US-PATENT-3,300,847	N70-41679* #	c 15	NASA-CASE-XLA-01441 US-PATENT-APPL-SN-516151 US-PATENT-CLASS-102-49 US-PATENT-3,302,569	N70-41955* #	c 14	NASA-CASE-XNP-02029 US-PATENT-APPL-SN-221276 US-PATENT-CLASS-88-14 US-PATENT-3,323,408
N70-41372* #	c 07	NASA-CASE-XLA-01127 US-PATENT-APPL-SN-363654 US-PATENT-CLASS-325-65 US-PATENT-3,300,731	N70-41680* #	c 07	NASA-CASE-XNP-02723 US-PATENT-APPL-SN-371857 US-PATENT-CLASS-343-14 US-PATENT-3,287,725	N70-41957* #	c 14	NASA-CASE-XAC-01101 US-PATENT-APPL-SN-355129 US-PATENT-CLASS-73-141 US-PATENT-3,304,773
N70-41373* #	c 31	NASA-CASE-XMS-01906 US-PATENT-APPL-SN-339040 US-PATENT-CLASS-244-1 US-PATENT-3,300,162	N70-41681* #	c 14	NASA-CASE-XAC-02877 US-PATENT-APPL-SN-449902 US-PATENT-CLASS-73-30 US-PATENT-3,295,360	N70-41960* #	c 15	NASA-CASE-XNP-05082 US-PATENT-APPL-SN-521753 US-PATENT-CLASS-174-68.5 US-PATENT-3,321,570
N70-41447* #	c 28	NASA-CASE-XNP-00732 US-PATENT-APPL-SN-261918 US-PATENT-CLASS-210-314 US-PATENT-3,295,684	N70-41682* #	c 14	NASA-CASE-XMS-05936 US-PATENT-APPL-SN-557868 US-PATENT-CLASS-73-517 US-PATENT-3,295,377	N70-41961* #	c 08	NASA-CASE-XNP-00911 US-PATENT-APPL-SN-280777 US-PATENT-CLASS-178-67 US-PATENT-3,305,636
N70-41576* #	c 28	NASA-CASE-XLE-00519 US-PATENT-APPL-SN-249542 US-PATENT-CLASS-313-63 US-PATENT-3,287,582	N70-41717* #	c 09	NASA-CASE-XMS-02087 US-PATENT-APPL-SN-439489 US-PATENT-CLASS-165-1 US-PATENT-3,301,315	N70-41964* #	c 10	NASA-CASE-XGS-01983 US-PATENT-APPL-SN-388023 US-PATENT-CLASS-333-79 US-PATENT-3,305,801
N70-41578* #	c 16	NASA-CASE-XGS-01504 US-PATENT-APPL-SN-340113 US-PATENT-CLASS-331-94 US-PATENT-3,287,660	N70-41807* #	c 14	NASA-CASE-XNP-01472 US-PATENT-APPL-SN-321656 US-PATENT-CLASS-178-7.2 US-PATENT-3,287,496	N70-41967* #	c 28	NASA-CASE-XLA-02651 US-PATENT-APPL-SN-449901 US-PATENT-CLASS-102-49 US-PATENT-3,304,885
N70-41579* #	c 32	NASA-CASE-XLE-00620 US-PATENT-APPL-SN-304698 US-PATENT-CLASS-138-119	N70-41808* #	c 15	NASA-CASE-XMS-02532 US-PATENT-APPL-SN-398132 US-PATENT-CLASS-285-27	N70-41991* #	c 10	NASA-CASE-XNP-03128 US-PATENT-APPL-SN-397665 US-PATENT-CLASS-250-83.6

N70-41992* #	c 28	US-PATENT-3,321,628 NASA-CASE-XLE-00685 US-PATENT-APPL-SN-407595 US-PATENT-CLASS-60-260 US-PATENT-3,321,922	N71-10616* #	c 14	US-PATENT-3,311,315 NASA-CASE-XMF-02433 US-PATENT-APPL-SN-405630 US-PATENT-CLASS-73-70.2 US-PATENT-3,310,978	N71-10781* #	c 14	US-PATENT-3,316,716 NASA-CASE-XLE-01481 US-PATENT-APPL-SN-319905 US-PATENT-CLASS-73-99 US-PATENT-3,282,091
N70-41993* #	c 15	NASA-CASE-XLE-01300 US-PATENT-APPL-SN-380960 US-PATENT-CLASS-73-100 US-PATENT-3,323,356	N71-10617* #	c 15	NASA-CASE-XMF-01887 US-PATENT-APPL-SN-422868 US-PATENT-CLASS-308-5 US-PATENT-3,325,229	N71-10782* #	c 15	NASA-CASE-XKS-01985 US-PATENT-APPL-SN-357337 US-PATENT-CLASS-285-24 US-PATENT-3,319,979
N70-41994* #	c 14	US-PATENT-3,323,362 NASA-CASE-XMF-02822 US-PATENT-APPL-SN-403959 US-PATENT-CLASS-73-194 US-PATENT-3,323,362	N71-10618* #	c 09	NASA-CASE-XNP-03332 US-PATENT-APPL-SN-368123 US-PATENT-CLASS-313-63 US-PATENT-3,311,772	N71-10797* #	c 14	NASA-CASE-XLE-01246 US-PATENT-APPL-SN-249537 US-PATENT-CLASS-324-61 US-PATENT-3,324,388
N70-42000* #	c 05	NASA-CASE-XMS-03371 US-PATENT-APPL-SN-418931 US-PATENT-CLASS-73-432 US-PATENT-3,323,370	N71-10658* #	c 15	NASA-CASE-XMS-03252 US-PATENT-APPL-SN-425362 US-PATENT-CLASS-60-54.5 US-PATENT-3,318,093	N71-10798* #	c 09	NASA-CASE-XMS-00945 US-PATENT-APPL-SN-385530 US-PATENT-CLASS-330-22 US-PATENT-3,319,175
N70-42003* #	c 32	NASA-CASE-XLA-02131 US-PATENT-APPL-SN-377777 US-PATENT-CLASS-73-90 US-PATENT-3,304,768	N71-10659* #	c 09	NASA-CASE-XNP-01383 US-PATENT-APPL-SN-369336 US-PATENT-CLASS-324-77 US-PATENT-3,317,832	N71-10799* #	c 15	NASA-CASE-XLA-01807 US-PATENT-APPL-SN-442558 US-PATENT-CLASS-287-189.36 US-PATENT-3,318,622
N70-42015* #	c 31	NASA-CASE-XLA-01967 US-PATENT-APPL-SN-457875 US-PATENT-CLASS-244-135 US-PATENT-3,321,159	N71-10672* #	c 15	NASA-CASE-XLA-01091 US-PATENT-APPL-SN-351259 US-PATENT-CLASS-264-102 US-PATENT-3,317,641	N71-10809* #	c 15	NASA-CASE-XMF-02107 US-PATENT-APPL-SN-384811 US-PATENT-CLASS-140-124 US-PATENT-3,318,343
N70-42016* #	c 02	NASA-CASE-XLA-01290 US-PATENT-APPL-SN-393451 US-PATENT-CLASS-244-42 US-PATENT-3,321,157	N71-10673* #	c 09	NASA-CASE-XGS-01473 US-PATENT-APPL-SN-364867 US-PATENT-CLASS-307-88.5 US-PATENT-3,317,751	N71-11037* #	c 02	NASA-CASE-XLA-06824-2 US-PATENT-APPL-SN-775966 US-PATENT-CLASS-244-31 US-PATENT-3,508,724
N70-42017* #	c 15	NASA-CASE-XMS-04072 US-PATENT-APPL-SN-485960 US-PATENT-CLASS-30-228 US-PATENT-3,320,669	N71-10676* #	c 07	NASA-CASE-XNP-03134 US-PATENT-APPL-SN-422095 US-PATENT-CLASS-333-21 US-PATENT-3,324,423	N71-11038* #	c 02	NASA-CASE-XLA-06958 US-PATENT-APPL-SN-551815 US-PATENT-CLASS-244-44 US-PATENT-3,310,261
N70-42032* #	c 10	NASA-CASE-XNP-02654 US-PATENT-APPL-SN-435387 US-PATENT-CLASS-307-88.5 US-PATENT-3,321,645	N71-10677* #	c 09	NASA-CASE-XGS-01451 US-PATENT-APPL-SN-405629 US-PATENT-CLASS-318-138 US-PATENT-3,324,370	N71-11039* #	c 02	NASA-CASE-MSC-12111-1 US-PATENT-APPL-SN-775877 US-PATENT-CLASS-244-23 US-PATENT-3,490,721
N70-42033* #	c 15	NASA-CASE-XNP-02092 US-PATENT-APPL-SN-371856 US-PATENT-CLASS-156-345 US-PATENT-3,323,967	N71-10678* #	c 21	NASA-CASE-XGS-01159 US-PATENT-APPL-SN-332313 US-PATENT-CLASS-250-203 US-PATENT-3,311,748	N71-11041* #	c 02	NASA-CASE-XLA-03659 US-PATENT-APPL-SN-444087 US-PATENT-CLASS-244-46 US-PATENT-3,270,989
N70-42034* #	c 15	NASA-CASE-XNP-01412 US-PATENT-APPL-SN-426702 US-PATENT-CLASS-175-310 US-PATENT-3,321,034	N71-10728* #	c 03	NASA-CASE-XNP-01464 US-PATENT-APPL-SN-430778 US-PATENT-CLASS-136-182 US-PATENT-3,317,352	N71-11043* #	c 02	NASA-CASE-XLA-08801-1 US-PATENT-APPL-SN-710533 US-PATENT-CLASS-244-43 US-PATENT-3,493,197
N70-42073* #	c 03	NASA-CASE-XFR-04104 US-PATENT-APPL-SN-476759 US-PATENT-CLASS-74-471 US-PATENT-3,323,386	N71-10746* #	c 11	NASA-CASE-XMS-02977 US-PATENT-APPL-SN-416938 US-PATENT-CLASS-35-12 US-PATENT-3,281,963	N71-11049* #	c 03	NASA-CASE-NPO-10109 US-PATENT-APPL-SN-701654 US-PATENT-CLASS-136-89 US-PATENT-3,532,551
N70-42074* #	c 14	NASA-CASE-XLE-02998 US-PATENT-APPL-SN-516794 US-PATENT-CLASS-116-117 US-PATENT-3,323,484	N71-10747* #	c 31	NASA-CASE-XMF-00442 US-PATENT-APPL-SN-202030 US-PATENT-CLASS-343-705 US-PATENT-3,277,486	N71-11050* #	c 03	NASA-CASE-XNP-06506 US-PATENT-APPL-SN-577778 US-PATENT-CLASS-136-89 US-PATENT-3,446,676
N70-42075* #	c 31	NASA-CASE-XMS-02677 US-PATENT-APPL-SN-472066 US-PATENT-CLASS-244-1 US-PATENT-3,321,154	N71-10748* #	c 11	NASA-CASE-XFR-04147 US-PATENT-APPL-SN-476761 US-PATENT-CLASS-35-12 US-PATENT-3,281,965	N71-11051* #	c 03	NASA-CASE-XNP-03378 US-PATENT-APPL-SN-360878 US-PATENT-CLASS-136-170 US-PATENT-3,282,740
N71-10500* #	c 14	NASA-CASE-XLE-01609 US-PATENT-APPL-SN-438797 US-PATENT-CLASS-73-290 US-PATENT-3,326,043	N71-10771* #	c 21	NASA-CASE-XNP-03914 US-PATENT-APPL-SN-468647 US-PATENT-CLASS-250-203 US-PATENT-3,317,731	N71-11052* #	c 03	NASA-CASE-XLE-04526 US-PATENT-APPL-SN-640457 US-PATENT-CLASS-136-86 US-PATENT-3,507,704
N71-10560* #	c 24	NASA-CASE-XLE-00808 US-PATENT-APPL-SN-307269 US-PATENT-CLASS-148-188 US-PATENT-3,310,443	N71-10772* #	c 18	NASA-CASE-XLE-01765 US-PATENT-APPL-SN-316477 US-PATENT-CLASS-117-65.2 US-PATENT-3,317,341	N71-11053* #	c 03	NASA-CASE-XGS-00886 US-PATENT-APPL-SN-319894 US-PATENT-CLASS-136-132 US-PATENT-3,282,739
N71-10574* #	c 28	NASA-CASE-XLE-01902 US-PATENT-APPL-SN-485656 US-PATENT-CLASS-60-202 US-PATENT-3,324,659	N71-10773* #	c 14	NASA-CASE-XLA-02605 US-PATENT-APPL-SN-459138 US-PATENT-CLASS-177-210 US-PATENT-3,316,991	N71-11055* #	c 03	NASA-CASE-XMF-05843 US-PATENT-APPL-SN-666553 US-PATENT-CLASS-310-4 US-PATENT-3,509,386
N71-10577* #	c 15	NASA-CASE-XLE-04677 US-PATENT-APPL-SN-447928 US-PATENT-CLASS-220-67 US-PATENT-3,326,407	N71-10774* #	c 14	NASA-CASE-XLA-01131 US-PATENT-APPL-SN-322545 US-PATENT-CLASS-73-23 US-PATENT-3,312,101	N71-11056* #	c 03	NASA-CASE-XNP-05821 US-PATENT-APPL-SN-545223 US-PATENT-CLASS-136-89 US-PATENT-3,493,437
N71-10578* #	c 10	NASA-CASE-XMS-01554 US-PATENT-APPL-SN-414482 US-PATENT-CLASS-323-8 US-PATENT-3,325,723	N71-10775* #	c 07	NASA-CASE-XLA-00901 US-PATENT-APPL-SN-269212 US-PATENT-CLASS-325-305 US-PATENT-3,311,832	N71-11057* #	c 03	NASA-CASE-MSC-13112 US-PATENT-APPL-SN-765738 US-PATENT-CLASS-290-40 US-PATENT-3,508,070
N71-10582* #	c 31	NASA-CASE-XLA-02132 US-PATENT-APPL-SN-453227 US-PATENT-CLASS-102-49 US-PATENT-3,286,630	N71-10776* #	c 11	NASA-CASE-XLA-03127 US-PATENT-APPL-SN-447927 US-PATENT-CLASS-35-12 US-PATENT-3,281,964	N71-11058* #	c 03	NASA-CASE-XGS-01475 US-PATENT-APPL-SN-344793 US-PATENT-CLASS-244-1 US-PATENT-3,459,391
N71-10604* #	c 11	NASA-CASE-XMF-03248 US-PATENT-APPL-SN-377780 US-PATENT-CLASS-73-116 US-PATENT-3,310,980	N71-10777* #	c 11	NASA-CASE-XLE-01533 US-PATENT-APPL-SN-334678 US-PATENT-CLASS-55-400 US-PATENT-3,282,035	N71-11189* #	c 05	NASA-CASE-XFR-10856 US-PATENT-APPL-SN-626376 US-PATENT-CLASS-3,534,727 US-PATENT-3,504,935
N71-10607* #	c 26	NASA-CASE-XLE-02792 US-PATENT-APPL-SN-352400 US-PATENT-CLASS-148-1.5 US-PATENT-3,311,510	N71-10778* #	c 15	NASA-CASE-XNP-00710 US-PATENT-APPL-SN-271821 US-PATENT-CLASS-251-61 US-PATENT-3,317,180	N71-11190* #	c 05	NASA-CASE-XMS-04935 US-PATENT-APPL-SN-518487 US-PATENT-CLASS-128-142.5 US-PATENT-3,502,074
N71-10608* #	c 03	NASA-CASE-XGS-03505 US-PATENT-APPL-SN-498167 US-PATENT-CLASS-136-28 US-PATENT-3,311,502	N71-10779* #	c 14	NASA-CASE-XMF-02307 US-PATENT-APPL-SN-422869 US-PATENT-CLASS-73-40.5 US-PATENT-3,316,752	N71-11193* #	c 05	NASA-CASE-ARC-10043-1 US-PATENT-APPL-SN-676012 US-PATENT-CLASS-128-2.1 US-PATENT-3,508,541
N71-10609* #	c 07	NASA-CASE-XGS-01223 US-PATENT-APPL-SN-318892 US-PATENT-CLASS-242-55.19	N71-10780* #	c 28	NASA-CASE-XLA-01043 US-PATENT-APPL-SN-379768 US-PATENT-CLASS-60-225	N71-11194* #	c 05	NASA-CASE-XLA-05332 US-PATENT-APPL-SN-757861 US-PATENT-CLASS-2-2.1 US-PATENT-3,534,407

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US-PATENT-CLASS-2-2.1
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US-PATENT-APPL-SN-407603
US-PATENT-CLASS-182-191
US-PATENT-3,262,518
N71-11202* # c 05 NASA-CASE-XFR-08403
US-PATENT-APPL-SN-704420
US-PATENT-CLASS-73-23
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US-PATENT-APPL-SN-791693
US-PATENT-CLASS-128-142.5
US-PATENT-3,500,827
N71-11207* # c 05 NASA-CASE-XLA-03213
US-PATENT-APPL-SN-621715
US-PATENT-CLASS-202-182
US-PATENT-3,444,051
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		US-PATENT-CLASS-321-47	US-PATENT-APPL-SN-853748	US-PATENT-APPL-SN-794530
N71-33160*	c 31	US-PATENT-3,588,671	US-PATENT-CLASS-416-115	US-PATENT-CLASS-248-183
		NASA-CASE-GSC-10186	US-PATENT-CLASS-416-121	US-PATENT-CLASS-248-278
		US-PATENT-APPL-SN-713188	US-PATENT-CLASS-416-127	US-PATENT-CLASS-248-487
N71-33229*	c 23	US-PATENT-CLASS-235-164	US-PATENT-CLASS-416-130	US-PATENT-CLASS-33-72
		US-PATENT-CLASS-235-175	US-PATENT-CLASS-416-149	US-PATENT-CLASS-350-285
		US-PATENT-3,588,483	US-PATENT-CLASS-416-200	US-PATENT-CLASS-350-287
N71-33407*	c 10	NASA-CASE-GSC-10667-1	US-PATENT-3,592,559	US-PATENT-3,596,863
		US-PATENT-APPL-SN-749548	N72-11062* c 03	NASA-CASE-XMF-09902
		US-PATENT-CLASS-330-11	NASA-CASE-XGS-04047-2	US-PATENT-APPL-SN-769665
N71-33408*	c 17	US-PATENT-CLASS-330-16	US-PATENT-CLASS-136-206	US-PATENT-CLASS-75-20F
		US-PATENT-3,585,514	US-PATENT-3,597,281	US-PATENT-3,592,628
		NASA-CASE-XLA-04063	N72-11084* c 05	NASA-CASE-MFS-20423
N71-33409*	c 03	US-PATENT-APPL-SN-802948	US-PATENT-APPL-SN-868530	US-PATENT-APPL-SN-865298
		US-PATENT-CLASS-179-1	US-PATENT-CLASS-62-467	US-PATENT-CLASS-212-134
		US-PATENT-CLASS-244-1	US-PATENT-CLASS-62-56	US-PATENT-CLASS-308-5
N71-33410*	c 16	US-PATENT-CLASS-244-83	US-PATENT-3,599,443	US-PATENT-3,600,046
		US-PATENT-3,586,261	NASA-CASE-MS-13140	NASA-CASE-XLA-05056
		NASA-CASE-NPO-10468	US-PATENT-APPL-SN-796358	US-PATENT-APPL-SN-596733
N71-33409*	c 03	US-PATENT-APPL-SN-787846	US-PATENT-CLASS-285-410	US-PATENT-CLASS-210-445
		US-PATENT-CLASS-350-310	US-PATENT-CLASS-297-232	US-PATENT-3,592,768
		US-PATENT-CLASS-350-55	US-PATENT-CLASS-297-68	NASA-CASE-MFS-18100
N71-33408*	c 17	US-PATENT-3,588,220	US-PATENT-CLASS-5-69	US-PATENT-APPL-SN-784055
		NASA-CASE-NPO-10342	US-PATENT-3,592,505	US-PATENT-CLASS-15-143
		US-PATENT-APPL-SN-704446	NASA-CASE-NPO-10301	US-PATENT-CLASS-15-210
N71-33410*	c 16	US-PATENT-CLASS-178-69.5	US-PATENT-APPL-SN-848810	US-PATENT-3,591,885
		US-PATENT-CLASS-179-15BS	US-PATENT-CLASS-343-771	NASA-CASE-NPO-11012
		US-PATENT-CLASS-340-347DD	US-PATENT-CLASS-343-853	US-PATENT-APPL-SN-845807
N71-33408*	c 17	US-PATENT-3,588,883	US-PATENT-3,599,216	US-PATENT-CLASS-248-18
		NASA-CASE-LEW-10327	N72-11149* c 07	US-PATENT-CLASS-248-20
		US-PATENT-APPL-SN-772006	NASA-CASE-GSC-10390-1	US-PATENT-3,592,422
N71-33409*	c 03	US-PATENT-CLASS-148-6.3	US-PATENT-APPL-SN-749121	NASA-CASE-MFS-20299
		US-PATENT-3,591,426	US-PATENT-CLASS-325-39	US-PATENT-APPL-SN-889437
		NASA-CASE-ARC-10050	US-PATENT-CLASS-325-4	US-PATENT-CLASS-156-320
N71-33410*	c 16	US-PATENT-APPL-SN-797219	US-PATENT-CLASS-325-58	US-PATENT-CLASS-156-66
		US-PATENT-CLASS-136-89	US-PATENT-CLASS-343-179	US-PATENT-CLASS-219-221
		US-PATENT-3,591,420	US-PATENT-CLASS-343-50P	US-PATENT-CLASS-219-243
N71-33410*	c 16	US-PATENT-3,591,420	US-PATENT-CLASS-343-7.5	US-PATENT-3,593,001
		NASA-CASE-NPO-10417	US-PATENT-3,593,138	N72-11568* # c 23
		US-PATENT-APPL-SN-753974	NASA-CASE-NPO-11064	NASA-CASE-GSC-11133-1
N71-33518*	c 15	US-PATENT-CLASS-331-94.5	US-PATENT-APPL-SN-880248	US-PATENT-APPL-SN-121328
		US-PATENT-CLASS-352-84	US-PATENT-CLASS-331-10	NASA-CASE-MFS-20095
		US-PATENT-CLASS-95-11	US-PATENT-CLASS-331-34	US-PATENT-APPL-SN-855004
N71-33519*	c 09	US-PATENT-3,587,424	US-PATENT-CLASS-331-68	US-PATENT-CLASS-250-49.5B
		NASA-CASE-XLA-03661	US-PATENT-CLASS-331-7	US-PATENT-CLASS-250-51
		US-PATENT-APPL-SN-751266	US-PATENT-3,593,180	US-PATENT-CLASS-250-52
N71-33519*	c 09	US-PATENT-CLASS-408-137	NASA-CASE-NPO-10769	US-PATENT-3,593,024
		US-PATENT-CLASS-90-11	US-PATENT-APPL-SN-813494	NASA-CASE-MFS-20619
		US-PATENT-3,585,882	US-PATENT-CLASS-179-15.55R	US-PATENT-APPL-SN-18982
N71-33606*	c 07	NASA-CASE-ERC-10100	US-PATENT-3,598,921	US-PATENT-CLASS-139-425R
		US-PATENT-APPL-SN-766697	NASA-CASE-GSC-10880-1	US-PATENT-CLASS-239-265.19
		US-PATENT-CLASS-313-109.5	US-PATENT-APPL-SN-831118	US-PATENT-CLASS-239-265.43
N71-33612*	c 11	US-PATENT-CLASS-313-231	US-PATENT-CLASS-235-61NV	US-PATENT-CLASS-60-271
		US-PATENT-CLASS-315-108	US-PATENT-CLASS-33-15A	US-PATENT-3,596,465
		US-PATENT-CLASS-315-111	US-PATENT-CLASS-33-204C	NASA-CASE-NPO-10737
N71-33613*	c 07	US-PATENT-CLASS-340-324	US-PATENT-3,599,335	US-PATENT-APPL-SN-760114
		US-PATENT-CLASS-340-338	NASA-CASE-GSC-10614-1	US-PATENT-CLASS-60-202
		US-PATENT-3,588,874	US-PATENT-APPL-SN-822534	US-PATENT-CLASS-60-39-48
N71-33696*	c 07	NASA-CASE-NPO-11031	US-PATENT-CLASS-179-100-2CA	US-PATENT-3,591,967
		US-PATENT-APPL-SN-864097	US-PATENT-CLASS-179-100-2MD	NASA-CASE-GSC-10087-3
		US-PATENT-CLASS-333-21A	US-PATENT-CLASS-274-4R	US-PATENT-APPL-SN-880885
N71-33612*	c 11	US-PATENT-CLASS-333-6	US-PATENT-3,592,478	US-PATENT-CLASS-325-4
		US-PATENT-CLASS-333-7	N72-11225* c 09	US-PATENT-CLASS-325-4.5R
		US-PATENT-3,588,751	NASA-CASE-KSC-10162	US-PATENT-CLASS-343-6.5R
N71-33613*	c 07	NASA-CASE-XLA-09480	US-PATENT-APPL-SN-817481	US-PATENT-CLASS-343-6.8R
		US-PATENT-APPL-SN-874435	US-PATENT-CLASS-324-102	US-PATENT-3,594,790
		US-PATENT-CLASS-73-147	US-PATENT-CLASS-324-119	NASA-CASE-GSC-10185-1
N71-33613*	c 07	US-PATENT-3,587,306	US-PATENT-CLASS-324-123R	US-PATENT-APPL-SN-733039
		NASA-CASE-NPO-10700	US-PATENT-3,593,132	US-PATENT-CLASS-178-DIG.12
		US-PATENT-APPL-SN-840308	NASA-CASE-ARC-10042-2	US-PATENT-CLASS-178-6
N71-33696*	c 07	US-PATENT-CLASS-318-227	US-PATENT-APPL-SN-33159	US-PATENT-CLASS-178-7.3
		US-PATENT-CLASS-318-230	US-PATENT-CLASS-330-107	US-PATENT-CLASS-325-10
		US-PATENT-3,588,648	US-PATENT-CLASS-330-109	US-PATENT-CLASS-325-13
N71-33696*	c 07	NASA-CASE-MS-12165-1	US-PATENT-3,593,175	US-PATENT-3,588,331
		US-PATENT-APPL-SN-875849	NASA-CASE-MS-11847-1	NASA-CASE-XER-09521
		US-PATENT-CLASS-325-347	US-PATENT-APPL-SN-8497	US-PATENT-APPL-SN-771530
N71-33696*	c 07	US-PATENT-CLASS-325-348	US-PATENT-CLASS-73-149	US-PATENT-CLASS-136-202
		US-PATENT-CLASS-325-473	US-PATENT-CLASS-73-290B	US-PATENT-CLASS-136-206
		US-PATENT-CLASS-325-478	US-PATENT-3,596,510	US-PATENT-CLASS-136-227
N71-33696*	c 07	US-PATENT-CLASS-325-478	N72-11364* c 14	US-PATENT-CLASS-343-DIG.3
		US-PATENT-CLASS-325-478	NASA-CASE-NPO-10778	
		US-PATENT-CLASS-325-478	US-PATENT-APPL-SN-865909	

		US-PATENT-CLASS-343-720				US-PATENT-APPL-SN-47443				US-PATENT-APPL-SN-24154
		US-PATENT-CLASS-343-840				US-PATENT-CLASS-250-211J				US-PATENT-CLASS-188-1C
		US-PATENT-3,594,803				US-PATENT-3,603,788				US-PATENT-CLASS-188-129
N72-12408*	c 15	NASA-CASE-XLA-05966	N72-17153*	c 09	NASA-CASE-ARC-10105	N72-17451*	c 15	NASA-CASE-WLP-10002		US-PATENT-3,603,433
		US-PATENT-APPL-SN-784544			US-PATENT-APPL-SN-887698			US-PATENT-APPL-SN-47062		US-PATENT-CLASS-180-125
		US-PATENT-CLASS-140-105			US-PATENT-CLASS-128-2.1A			US-PATENT-CLASS-180-125		US-PATENT-CLASS-180-127
		US-PATENT-CLASS-72-307			US-PATENT-CLASS-307-252F			US-PATENT-CLASS-308-DIG.1		US-PATENT-CLASS-308-5
N72-12409*	c 15	US-PATENT-3,584,660			US-PATENT-CLASS-307-252J			US-PATENT-CLASS-308-9		US-PATENT-3,610,365
		NASA-CASE-NPO-10637			US-PATENT-CLASS-340-177			US-PATENT-CLASS-308-9		US-PATENT-3,610,365
		US-PATENT-APPL-SN-851298			US-PATENT-3,603,946			US-PATENT-CLASS-308-9		US-PATENT-3,610,365
		US-PATENT-CLASS-236-68	N72-17154*	c 09	NASA-CASE-ERC-10139	N72-17452*	c 15	NASA-CASE-XLA-10322		US-PATENT-APPL-SN-887699
		US-PATENT-CLASS-337-354			US-PATENT-CLASS-321-10			US-PATENT-CLASS-73-88.5R		US-PATENT-3,608,365
		US-PATENT-CLASS-337-359			US-PATENT-CLASS-338-178			US-PATENT-3,608,365		US-PATENT-3,608,365
		US-PATENT-CLASS-337-75			US-PATENT-3,603,884	N72-17453*	c 15	NASA-CASE-NPO-11177		US-PATENT-APPL-SN-20960
		US-PATENT-CLASS-60-23			US-PATENT-CLASS-330-11			US-PATENT-CLASS-62-51		US-PATENT-CLASS-308-9
		US-PATENT-3,591,960			US-PATENT-CLASS-330-35			US-PATENT-3,605,424		US-PATENT-CLASS-308-9
N72-12440*	c 16	NASA-CASE-MFS-20180	N72-17155*	c 09	NASA-CASE-NPO-11023	N72-17454*	c 15	NASA-CASE-NPO-11059		US-PATENT-APPL-SN-864020
		US-PATENT-APPL-SN-863276			US-PATENT-APPL-SN-865274			US-PATENT-CLASS-248-14		US-PATENT-CLASS-248-14
		US-PATENT-CLASS-331-94.5			US-PATENT-CLASS-330-18			US-PATENT-CLASS-248-14		US-PATENT-CLASS-248-14
		US-PATENT-CLASS-350-1			US-PATENT-CLASS-330-40			US-PATENT-CLASS-248-14		US-PATENT-CLASS-248-14
		US-PATENT-CLASS-350-312			US-PATENT-3,603,882			US-PATENT-CLASS-248-14		US-PATENT-CLASS-248-14
		US-PATENT-3,593,194	N72-17156*	c 09	NASA-CASE-NPO-10199			US-PATENT-CLASS-248-14		US-PATENT-CLASS-248-14
N72-13437*	c 16	NASA-CASE-MFS-20125			US-PATENT-APPL-SN-739391			US-PATENT-CLASS-248-14		US-PATENT-CLASS-248-14
		US-PATENT-APPL-SN-830386			US-PATENT-CLASS-178-7.1			US-PATENT-CLASS-248-14		US-PATENT-CLASS-248-14
		US-PATENT-CLASS-178-DIG.21			US-PATENT-CLASS-330-11			US-PATENT-CLASS-248-14		US-PATENT-CLASS-248-14
		US-PATENT-CLASS-178-8			US-PATENT-CLASS-330-35			US-PATENT-CLASS-248-14		US-PATENT-CLASS-248-14
		US-PATENT-CLASS-250-203X			US-PATENT-3,609,230			US-PATENT-CLASS-248-14		US-PATENT-CLASS-248-14
		US-PATENT-CLASS-356-152			NASA-CASE-NPO-11253			US-PATENT-CLASS-248-14		US-PATENT-CLASS-248-14
		US-PATENT-3,603,686	N72-17157*	c 09	US-PATENT-APPL-SN-21906			US-PATENT-CLASS-248-14		US-PATENT-CLASS-248-14
N72-15098*	c 05	NASA-CASE-MSC-13917-1			US-PATENT-CLASS-307-223			US-PATENT-CLASS-248-14		US-PATENT-CLASS-248-14
		US-PATENT-APPL-SN-198355			US-PATENT-CLASS-307-227			US-PATENT-CLASS-248-14		US-PATENT-CLASS-248-14
N72-15986*	c 03	NASA-CASE-XGS-10010			US-PATENT-CLASS-307-81			US-PATENT-CLASS-248-14		US-PATENT-CLASS-248-14
		US-PATENT-APPL-SN-729299			US-PATENT-CLASS-328-186			US-PATENT-CLASS-248-14		US-PATENT-CLASS-248-14
		US-PATENT-CLASS-138-133			US-PATENT-3,609,387			US-PATENT-CLASS-248-14		US-PATENT-CLASS-248-14
		US-PATENT-CLASS-138-135			NASA-CASE-XAC-05482-2			US-PATENT-CLASS-248-14		US-PATENT-CLASS-248-14
		US-PATENT-CLASS-138-6	N72-17171*	c 10	US-PATENT-APPL-SN-28235			US-PATENT-CLASS-248-14		US-PATENT-CLASS-248-14
		US-PATENT-3,607,401			US-PATENT-CLASS-307-295			US-PATENT-CLASS-248-14		US-PATENT-CLASS-248-14
N72-16015*	c 05	NASA-CASE-KSC-10278			US-PATENT-CLASS-328-167			US-PATENT-CLASS-248-14		US-PATENT-CLASS-248-14
		US-PATENT-APPL-SN-856327			US-PATENT-CLASS-330-109			US-PATENT-CLASS-248-14		US-PATENT-CLASS-248-14
		US-PATENT-CLASS-324-66			US-PATENT-CLASS-330-176			US-PATENT-CLASS-248-14		US-PATENT-CLASS-248-14
		US-PATENT-CLASS-340-279			US-PATENT-CLASS-333-70CR			US-PATENT-CLASS-248-14		US-PATENT-CLASS-248-14
		US-PATENT-CLASS-35-8			US-PATENT-3,609,587			US-PATENT-CLASS-248-14		US-PATENT-CLASS-248-14
		US-PATENT-3,609,740	N72-17172*	c 10	NASA-CASE-ARC-10020			US-PATENT-CLASS-248-14		US-PATENT-CLASS-248-14
N72-16172*	c 10	NASA-CASE-ARC-10269-1			US-PATENT-APPL-SN-31885			US-PATENT-CLASS-248-14		US-PATENT-CLASS-248-14
		US-PATENT-APPL-SN-56791			US-PATENT-CLASS-330-107			US-PATENT-CLASS-248-14		US-PATENT-CLASS-248-14
		US-PATENT-CLASS-307-230			US-PATENT-CLASS-330-109			US-PATENT-CLASS-248-14		US-PATENT-CLASS-248-14
		US-PATENT-CLASS-307-262			US-PATENT-CLASS-330-26			US-PATENT-CLASS-248-14		US-PATENT-CLASS-248-14
		US-PATENT-CLASS-328-155			US-PATENT-CLASS-330-31			US-PATENT-CLASS-248-14		US-PATENT-CLASS-248-14
		US-PATENT-3,614,475			US-PATENT-CLASS-330-94			US-PATENT-CLASS-248-14		US-PATENT-CLASS-248-14
N72-16282*	c 14	NASA-CASE-LAR-10913			US-PATENT-3,605,032			US-PATENT-CLASS-248-14		US-PATENT-CLASS-248-14
		US-PATENT-APPL-SN-779160	N72-17173*	c 10	NASA-CASE-MFS-13130			US-PATENT-CLASS-248-14		US-PATENT-CLASS-248-14
		US-PATENT-CLASS-73-12			US-PATENT-APPL-SN-7868			US-PATENT-CLASS-248-14		US-PATENT-CLASS-248-14
		US-PATENT-3,605,482			US-PATENT-CLASS-250-209			US-PATENT-CLASS-248-14		US-PATENT-CLASS-248-14
N72-16283*	c 14	NASA-CASE-GSC-10780-1			US-PATENT-CLASS-250-83.3UV			US-PATENT-CLASS-248-14		US-PATENT-CLASS-248-14
		US-PATENT-APPL-SN-860493			US-PATENT-CLASS-340-228.2			US-PATENT-CLASS-248-14		US-PATENT-CLASS-248-14
		US-PATENT-CLASS-82-24R			US-PATENT-3,609,384			US-PATENT-CLASS-248-14		US-PATENT-CLASS-248-14
		US-PATENT-3,608,409	N72-17183*	c 11	NASA-CASE-MFS-20509			US-PATENT-CLASS-248-14		US-PATENT-CLASS-248-14
N72-16329*	c 15	NASA-CASE-XLA-07829			US-PATENT-APPL-SN-889557			US-PATENT-CLASS-248-14		US-PATENT-CLASS-248-14
		US-PATENT-APPL-SN-763684			US-PATENT-CLASS-73-147			US-PATENT-CLASS-248-14		US-PATENT-CLASS-248-14
		US-PATENT-CLASS-264-DIG.44			US-PATENT-3,602,920			US-PATENT-CLASS-248-14		US-PATENT-CLASS-248-14
		US-PATENT-CLASS-264-221			NASA-CASE-ERC-10248			US-PATENT-CLASS-248-14		US-PATENT-CLASS-248-14
		US-PATENT-CLASS-264-225			US-PATENT-APPL-SN-868445			US-PATENT-CLASS-248-14		US-PATENT-CLASS-248-14
		US-PATENT-CLASS-264-227			US-PATENT-CLASS-350-162			US-PATENT-CLASS-248-14		US-PATENT-CLASS-248-14
		US-PATENT-3,608,046			US-PATENT-CLASS-356-113			US-PATENT-CLASS-248-14		US-PATENT-CLASS-248-14
N72-16330*	c 15	NASA-CASE-LAR-10203-1			US-PATENT-CLASS-356-209			US-PATENT-CLASS-248-14		US-PATENT-CLASS-248-14
		US-PATENT-APPL-SN-769592			US-PATENT-CLASS-356-244			US-PATENT-CLASS-248-14		US-PATENT-CLASS-248-14
		US-PATENT-CLASS-156-84			US-PATENT-3,603,690			US-PATENT-CLASS-248-14		US-PATENT-CLASS-248-14
		US-PATENT-CLASS-156-86	N72-17324*	c 14	NASA-CASE-MFS-20596			US-PATENT-CLASS-248-14		US-PATENT-CLASS-248-14
		US-PATENT-3,607,495			US-PATENT-APPL-SN-7867			US-PATENT-CLASS-248-14		US-PATENT-CLASS-248-14
N72-17093*	c 06	NASA-CASE-LEW-10794-1			US-PATENT-CLASS-350-3.5			US-PATENT-CLASS-248-14		US-PATENT-CLASS-248-14
		US-PATENT-APPL-SN-33535			US-PATENT-3,605,519			US-PATENT-CLASS-248-14		US-PATENT-CLASS-248-14
		US-PATENT-CLASS-23-55			NASA-CASE-MSC-15158-1			US-PATENT-CLASS-248-14		US-PATENT-CLASS-248-14
		US-PATENT-CLASS-23-88			US-PATENT-APPL-SN-889479			US-PATENT-CLASS-248-14		US-PATENT-CLASS-248-14
		US-PATENT-CLASS-23-97			US-PATENT-CLASS-324-52			US-PATENT-CLASS-248-14		US-PATENT-CLASS-248-14
		US-PATENT-3,607,015			US-PATENT-3,609,535			US-PATENT-CLASS-248-14		US-PATENT-CLASS-248-14
N72-17094*	c 06	NASA-CASE-NPO-10234			NASA-CASE-XMS-01994-1			US-PATENT-CLASS-248-14		US-PATENT-CLASS-248-14
		US-PATENT-APPL-SN-800204			US-PATENT-APPL-SN-814212			US-PATENT-CLASS-248-14		US-PATENT-CLASS-248-14
		US-PATENT-CLASS-23-230R			US-PATENT-CLASS-356-4			US-PATENT-CLASS-248-14		US-PATENT-CLASS-248-14
		US-PATENT-CLASS-23-232C			US-PATENT-3,603,683			US-PATENT-CLASS-248-14		US-PATENT-CLASS-248-14
		US-PATENT-CLASS-23-253PC			NASA-CASE-LEW-10281-1			US-PATENT-CLASS-248-14		US-PATENT-CLASS-248-14
		US-PATENT-CLASS-73-23.1			US-PATENT-APPL-SN-861649			US-PATENT-CLASS-248-14		US-PATENT-CLASS-248-14
		US-PATENT-3,607,076			US-PATENT-CLASS-73-198			US-PATENT-CLASS-248-14		US-PATENT-CLASS-248-14
N72-17095*	c 06	NASA-CASE-NPO-10774			US-PATENT-3,605,495			US-PATENT-CLASS-248-14		US-PATENT-CLASS-248-14
		US-PATENT-APPL-SN-848805			NASA-CASE-XLA-07813			US-PATENT-CLASS-248-14		US-PATENT-CLASS-248-14
		US-PATENT-CLASS-23-201			US-PATENT-APPL-SN-791384			US-PATENT-CLASS-248-14		US-PATENT-CLASS-248-14
		US-PATENT-CLASS-23-230			US-PATENT-CLASS-250-207			US-PATENT-CLASS-248-14		US-PATENT-CLASS-248-14
		US-PATENT-CLASS-23-253			US-PATENT-CLASS-250-41.9			US-PATENT-CLASS-248-14		US-PATENT-CLASS-248-14
		US-PATENT-CLASS-73-76			US-PATENT-CLASS-250-49.5			US-PATENT-CLASS-248-14		US-PATENT-CLASS-248-14
		US-PATENT-3,607,080			US-PATENT-CLASS-250-71.5			US-PATENT-CLASS-248-14		US-PATENT-CLASS-248-14
N72-17109*	c 07	NASA-CASE-MSC-12146-1			US-PATENT-CLASS-250-83.3			US-PATENT-CLASS-248-14		US-PATENT-CLASS-248-14
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US-PATENT-APPL-SN-37050
US-PATENT-CLASS-331-109
US-PATENT-CLASS-331-117R
US-PATENT-CLASS-331-183
US-PATENT-3,815,048

N74-26767* # c 73 NASA-CASE-NPO-13112-1
US-PATENT-APPL-SN-267572
US-PATENT-CLASS-250-499
US-PATENT-CLASS-313-61S
US-PATENT-3,816,785

N74-26945* # c 35 NASA-CASE-MFS-21556-1
US-PATENT-APPL-SN-340791
US-PATENT-CLASS-177-200
US-PATENT-CLASS-177-211
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US-PATENT-CLASS-73-141A
US-PATENT-3,812,924

N74-26946* # c 35 NASA-CASE-MFS-22040-1
US-PATENT-APPL-SN-365644
US-PATENT-CLASS-350-3.5
US-PATENT-CLASS-96-38.3
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US-PATENT-3,815,969

N74-26947* # c 25 NASA-CASE-ARC-10633-1
US-PATENT-APPL-SN-354611
US-PATENT-CLASS-250-304
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US-PATENT-3,814,939

N74-26948* # c 25 NASA-CASE-MFS-21395-1
US-PATENT-APPL-SN-260093
US-PATENT-CLASS-204-180R
US-PATENT-3,814,678

N74-26949* # c 35 NASA-CASE-GSC-11492-1
US-PATENT-APPL-SN-372148
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US-PATENT-CLASS-250-385
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US-PATENT-3,812,358

N74-26976* # c 37 NASA-CASE-MFS-21846-1
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US-PATENT-CLASS-188-163
US-PATENT-CLASS-188-171
US-PATENT-3,812,936

N74-26977* # c 33 NASA-CASE-MFS-22133-1
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US-PATENT-CLASS-29-203MW
US-PATENT-3,815,205

N74-27035* # c 24 NASA-CASE-XLA-11028-1
US-PATENT-APPL-SN-219435
US-PATENT-CLASS-156-285
US-PATENT-3,814,653

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US-PATENT-APPL-SN-318358
US-PATENT-CLASS-102-105
US-PATENT-CLASS-106-15FP
US-PATENT-CLASS-252-62
US-PATENT-CLASS-252-8.1
US-PATENT-CLASS-260-DIG.24
US-PATENT-CLASS-260-2.5FP
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US-PATENT-3,819,550

N74-27360* # c 15 NASA-CASE-LAR-10670-2
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US-PATENT-CLASS-102-90
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US-PATENT-3,813,875

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US-PATENT-CLASS-102-28EB
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US-PATENT-3,812,783

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US-PATENT-CLASS-181-33HB
US-PATENT-CLASS-239-265.17
US-PATENT-3,820,630

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US-PATENT-CLASS-324-29.5
US-PATENT-CLASS-324-72.5
US-PATENT-3,818,325

N74-27566* # c 52 NASA-CASE-GSC-11531-1
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		US-PATENT-APPL-SN-438147				US-PATENT-CLASS-308-73						US-PATENT-CLASS-310-4
		US-PATENT-CLASS-315-111.6				US-PATENT-CLASS-308-9						US-PATENT-3,931,532
		US-PATENT-CLASS-73-12				US-PATENT-CLASS-308-9						NASA-CASE-MSC-12561-1
		US-PATENT-CLASS-89-8				US-PATENT-3,926,482						US-PATENT-APPL-SN-448323
		US-PATENT-3,916,761				NASA-CASE-LEW-11866-1						US-PATENT-CLASS-244-162
N76-15189* #	c 12	NASA-CASE-MSC-12611-1				US-PATENT-APPL-SN-500980						US-PATENT-CLASS-244-172
		US-PATENT-APPL-SN-446560				US-PATENT-CLASS-250-499						US-PATENT-3,929,306
		US-PATENT-CLASS-350-288				US-PATENT-CLASS-250-500						NASA-CASE-LAR-10799-2
		US-PATENT-CLASS-350-293				US-PATENT-3,924,137						US-PATENT-APPL-SN-301419
		US-PATENT-CLASS-427-162				NASA-CASE-LAR-11575-1						US-PATENT-APPL-SN-419319
		US-PATENT-CLASS-427-250				US-PATENT-APPL-SN-527727						US-PATENT-CLASS-165-105
		US-PATENT-3,927,227				US-PATENT-CLASS-244-139						US-PATENT-CLASS-165-106
N76-15268* #	c 23	NASA-CASE-MFS-22355-1				US-PATENT-3,930,628						US-PATENT-CLASS-237-60
		US-PATENT-APPL-SN-487852				NASA-CASE-NPO-12061-1						US-PATENT-CLASS-244-117A
		US-PATENT-CLASS-260-32.6N				US-PATENT-APPL-SN-45549						US-PATENT-CLASS-244-135R
		US-PATENT-CLASS-260-32.8N				US-PATENT-CLASS-260-879						US-PATENT-CLASS-417-209
		US-PATENT-CLASS-260-346.3				US-PATENT-CLASS-260-900						US-PATENT-3,929,305
		US-PATENT-CLASS-260-47CP				US-PATENT-CLASS-260-92.1						NASA-CASE-LAR-11675-1
		US-PATENT-CLASS-260-571				US-PATENT-3,931,132						US-PATENT-APPL-SN-557448
		US-PATENT-CLASS-260-78TF				NASA-CASE-LEW-11179-1						US-PATENT-CLASS-178-DIG.1
		US-PATENT-3,925,312				US-PATENT-APPL-SN-357312						US-PATENT-CLASS-178-DIG.8
N76-15310* #	c 27	NASA-CASE-ARC-10714-1				US-PATENT-CLASS-29-195A						US-PATENT-CLASS-178-6.8
		US-PATENT-APPL-SN-398885				US-PATENT-CLASS-427-203						US-PATENT-CLASS-250-373
		US-PATENT-CLASS-260-2.5AK				US-PATENT-CLASS-427-204						US-PATENT-CLASS-340-237S
		US-PATENT-CLASS-427-196				US-PATENT-CLASS-427-205						US-PATENT-CLASS-356-207
		US-PATENT-CLASS-427-426				US-PATENT-CLASS-427-270						US-PATENT-3,931,462
		US-PATENT-CLASS-428-303				US-PATENT-CLASS-427-275						NASA-CASE-MFS-22145-2
		US-PATENT-3,916,060				US-PATENT-CLASS-427-287						US-PATENT-APPL-SN-367606
N76-15311* #	c 27	NASA-CASE-NPO-13120-1				US-PATENT-CLASS-428-450						US-PATENT-APPL-SN-500982
		US-PATENT-APPL-SN-348422				US-PATENT-CLASS-428-457						US-PATENT-CLASS-124-1
		US-PATENT-CLASS-29-182.5				US-PATENT-CLASS-428-469						US-PATENT-CLASS-124-11R
		US-PATENT-3,926,567				US-PATENT-CLASS-428-539						US-PATENT-CLASS-89-8
N76-15329* #	c 32	NASA-CASE-GSC-11968-1				US-PATENT-3,931,447						US-PATENT-3,929,119
		US-PATENT-APPL-SN-512825				NASA-CASE-ARC-10813-1						NASA-CASE-LAR-11674-1
		US-PATENT-CLASS-343-779				US-PATENT-APPL-SN-437556						US-PATENT-APPL-SN-331759
		US-PATENT-CLASS-343-837				US-PATENT-CLASS-264-331						US-PATENT-APPL-SN-488616
		US-PATENT-CLASS-343-876				US-PATENT-CLASS-428-412						US-PATENT-CLASS-181-33HC
		US-PATENT-3,927,408				US-PATENT-CLASS-428-413						US-PATENT-CLASS-239-265.11
N76-15330* #	c 32	NASA-CASE-LAR-11112-1				US-PATENT-CLASS-428-447						US-PATENT-3,938,742
		US-PATENT-APPL-SN-491419				US-PATENT-CLASS-428-911						NASA-CASE-NPO-13063-1
		US-PATENT-CLASS-343-786				US-PATENT-CLASS-428-920						US-PATENT-APPL-SN-227977
		US-PATENT-3,924,237				US-PATENT-CLASS-428-921						US-PATENT-CLASS-23-230M
N76-15373* #	c 33	NASA-CASE-LEW-11938-1				US-PATENT-3,928,708						US-PATENT-CLASS-23-230R
		US-PATENT-APPL-SN-544611				NASA-CASE-MSC-14557-1						US-PATENT-CLASS-23-232C
		US-PATENT-CLASS-317-258				US-PATENT-APPL-SN-428994						US-PATENT-CLASS-23-253R
		US-PATENT-CLASS-317-261				US-PATENT-APPL-SN-464720						US-PATENT-CLASS-23-254R
		US-PATENT-3,924,184				US-PATENT-CLASS-178-69C						US-PATENT-CLASS-23-255R
N76-15431* #	c 35	NASA-CASE-MSC-13802-2				US-PATENT-CLASS-178-88						US-PATENT-CLASS-235-151.13
		US-PATENT-APPL-SN-189438				US-PATENT-CLASS-325-321						US-PATENT-CLASS-73-23.1
		US-PATENT-APPL-SN-475338				US-PATENT-3,924,068						US-PATENT-3,860,393
		US-PATENT-CLASS-250-251				NASA-CASE-MSC-14849-1						NASA-CASE-MFS-22907-1
		US-PATENT-CLASS-250-287				US-PATENT-APPL-SN-505819						US-PATENT-APPL-SN-518546
		US-PATENT-CLASS-250-423				US-PATENT-CLASS-324-79D						US-PATENT-CLASS-324-34R
		US-PATENT-3,916,187				US-PATENT-CLASS-328-134						US-PATENT-3,938,037
N76-15432* #	c 35	NASA-CASE-LAR-11435-1				US-PATENT-3,924,183						NASA-CASE-GSC-11862-1
		US-PATENT-APPL-SN-522556				NASA-CASE-GSC-11849-1						US-PATENT-APPL-SN-500979
		US-PATENT-CLASS-310-8.2				US-PATENT-APPL-SN-470428						US-PATENT-CLASS-343-837
		US-PATENT-CLASS-73-1R				US-PATENT-CLASS-174-145						US-PATENT-CLASS-343-840
		US-PATENT-3,924,444				US-PATENT-CLASS-174-148						US-PATENT-CLASS-343-912
N76-15433* #	c 35	NASA-CASE-GSC-11892-1				US-PATENT-CLASS-339-143C						US-PATENT-CLASS-343-915
		US-PATENT-APPL-SN-502135				US-PATENT-CLASS-339-198R						US-PATENT-3,938,162
		US-PATENT-CLASS-250-336				US-PATENT-CLASS-339-242						NASA-CASE-NPO-13385-1
		US-PATENT-CLASS-250-385				US-PATENT-CLASS-339-275R						US-PATENT-APPL-SN-501011
		US-PATENT-CLASS-250-489				US-PATENT-3,931,456						US-PATENT-CLASS-340-347AD
		US-PATENT-3,927,324				NASA-CASE-NPO-13388-1						US-PATENT-3,938,188
N76-15434* #	c 35	NASA-CASE-LEW-11072-2				US-PATENT-APPL-SN-522552						NASA-CASE-GSC-11825-1
		US-PATENT-APPL-SN-254323				US-PATENT-CLASS-324-43R						US-PATENT-APPL-SN-538983
		US-PATENT-CLASS-136-211				US-PATENT-3,924,176						US-PATENT-CLASS-360-26
		US-PATENT-CLASS-136-212				NASA-CASE-NPO-10166-2						US-PATENT-CLASS-360-51
		US-PATENT-CLASS-136-225				US-PATENT-APPL-SN-192803						US-PATENT-3,938,182
		US-PATENT-3,925,104				US-PATENT-APPL-SN-668116						NASA-CASE-LAR-11570-1
N76-15435* #	c 35	NASA-CASE-NPO-13506-1				US-PATENT-CLASS-360-10						US-PATENT-APPL-SN-482967
		US-PATENT-APPL-SN-483851				US-PATENT-CLASS-360-101						US-PATENT-CLASS-244-23D
		US-PATENT-CLASS-343-909				US-PATENT-CLASS-360-35						US-PATENT-CLASS-60-316
		US-PATENT-3,924,239				US-PATENT-CLASS-360-9						US-PATENT-3,940,097
N76-15436* #	c 35	NASA-CASE-GSC-11895-1				US-PATENT-3,924,267						NASA-CASE-MFS-22938-1
		US-PATENT-APPL-SN-511887				NASA-CASE-LAR-11458-1						US-PATENT-APPL-SN-542754
		US-PATENT-CLASS-331-3				US-PATENT-APPL-SN-504225						US-PATENT-CLASS-250-335
		US-PATENT-CLASS-331-94				US-PATENT-CLASS-294-1R						US-PATENT-3,940,621
		US-PATENT-3,924,200				US-PATENT-CLASS-294-19R						NASA-CASE-LAR-10208-1
N76-15457* #	c 37	NASA-CASE-MFS-22707-1				US-PATENT-3,928,364						US-PATENT-APPL-SN-483858
		US-PATENT-APPL-SN-535410				NASA-CASE-GSC-11889-1						US-PATENT-CLASS-73-103
		US-PATENT-CLASS-214-1R				US-PATENT-APPL-SN-502124						US-PATENT-CLASS-73-95
		US-PATENT-CLASS-74-384				US-PATENT-CLASS-250-281						US-PATENT-3,938,373
		US-PATENT-CLASS-74-665B				US-PATENT-CLASS-250-287						NASA-CASE-NPO-13396-1
		US-PATENT-3,922,930				US-PATENT-CLASS-250-288						US-PATENT-APPL-SN-563283
N76-15460* #	c 37	NASA-CASE-MFS-22022-1				US-PATENT-CLASS-250-385						US-PATENT-CLASS-55-261
		US-PATENT-APPL-SN-405341				US-PATENT-CLASS-250-423						US-PATENT-CLASS-73-28
		US-PATENT-CLASS-214-1CM				US-PATENT-3,931,516						US-PATENT-CLASS-73-421.5R
		US-PATENT-3,923,166				NASA-CASE-NPO-13342-1						US-PATENT-3,938,367
N76-15461* #	c 37	NASA-CASE-LEW-11076-4				US-PATENT-APPL-SN-390049						NASA-CASE-MFS-22517-1
		US-PATENT-APPL-SN-238264				NASA-CASE-MFS-22002-1						US-PATENT-APPL-SN-506804
		US-PATENT-APPL-SN-348483				US-PATENT-APPL-SN-452769						US-PATENT-CLASS-350-3.5

N76-18403* #	c 35	US-PATENT-3,937,555 NASA-CASE-ARC-10322-1 US-PATENT-APPL-SN-484209 US-PATENT-CLASS-23-254EF US-PATENT-3,938,956	N76-18427* #	c 36	US-PATENT-3,937,555 NASA-CASE-NPO-11945-1 US-PATENT-APPL-SN-269450 US-PATENT-CLASS-331-94.5 US-PATENT-CLASS-332-7.51 US-PATENT-CLASS-350-150 US-PATENT-CLASS-423-352 US-PATENT-CLASS-423-644 US-PATENT-3,806,834	N76-18428* #	c 36	US-PATENT-3,937,555 NASA-CASE-NPO-13544-1 US-PATENT-APPL-SN-533555 US-PATENT-CLASS-331-94.5C US-PATENT-CLASS-350-96WG US-PATENT-3,939,439	N76-18454* #	c 37	US-PATENT-3,937,555 NASA-CASE-MFS-23047-1 US-PATENT-APPL-SN-521602 US-PATENT-CLASS-173-132 US-PATENT-CLASS-29-81D US-PATENT-CLASS-72-453 US-PATENT-CLASS-73-399 US-PATENT-3,937,055	N76-18455* #	c 37	US-PATENT-3,937,555 NASA-CASE-MSC-14435-1 US-PATENT-APPL-SN-450500 US-PATENT-CLASS-228-193 US-PATENT-CLASS-228-206 US-PATENT-CLASS-228-214 US-PATENT-CLASS-228-238 US-PATENT-3,937,387	N76-18456* #	c 37	US-PATENT-3,937,555 NASA-CASE-LAR-11224-1 US-PATENT-APPL-SN-450502 US-PATENT-CLASS-134-21 US-PATENT-CLASS-134-37 US-PATENT-CLASS-19-205 US-PATENT-CLASS-209-250 US-PATENT-CLASS-209-300 US-PATENT-CLASS-209-305 US-PATENT-3,937,661	N76-18457* #	c 37	US-PATENT-3,937,555 NASA-CASE-NPO-13402-1 US-PATENT-APPL-SN-387342 US-PATENT-CLASS-123-DIG.12 US-PATENT-CLASS-123-119E US-PATENT-CLASS-123-120 US-PATENT-CLASS-123-121 US-PATENT-CLASS-123-89A US-PATENT-3,906,913	N76-18458* #	c 37	US-PATENT-3,937,555 NASA-CASE-LEW-11860-1 US-PATENT-APPL-SN-527728 US-PATENT-CLASS-204-157.1H US-PATENT-CLASS-250-527 US-PATENT-3,939,048	N76-18459* #	c 37	US-PATENT-3,937,555 NASA-CASE-GSC-11551-1 US-PATENT-APPL-SN-440917 US-PATENT-CLASS-308-10 US-PATENT-3,937,533	N76-18641* #	c 44	US-PATENT-3,937,555 NASA-CASE-NPO-13237-1 US-PATENT-APPL-SN-378127 US-PATENT-CLASS-136-83R US-PATENT-CLASS-136-86S US-PATENT-3,894,887	N76-18642* #	c 44	US-PATENT-3,937,555 NASA-CASE-NPO-13464-1 US-PATENT-APPL-SN-428444 US-PATENT-CLASS-123-3 US-PATENT-CLASS-23-281 US-PATENT-CLASS-423-650 US-PATENT-CLASS-48-116 US-PATENT-CLASS-48-117 US-PATENT-CLASS-48-63 US-PATENT-CLASS-48-75 US-PATENT-CLASS-48-95 US-PATENT-3,920,416	N76-18643* #	c 44	US-PATENT-3,937,555 NASA-CASE-NPO-11961-1 US-PATENT-APPL-SN-378126 US-PATENT-CLASS-136-30 US-PATENT-CLASS-136-6LF US-PATENT-CLASS-320-21 US-PATENT-CLASS-320-22 US-PATENT-3,912,999	N76-18800* #	c 60	US-PATENT-3,937,555 NASA-CASE-NPO-13067-1 US-PATENT-APPL-SN-274348 US-PATENT-CLASS-340-172.5 US-PATENT-3,829,839	N76-18913* #	c 74	US-PATENT-3,937,555 NASA-CASE-GSC-11877-1 US-PATENT-APPL-SN-482953 US-PATENT-CLASS-235-184 US-PATENT-CLASS-250-199 US-PATENT-3,937,945	N76-19338* #	c 33	US-PATENT-3,937,555 NASA-CASE-NPO-13519-1 US-PATENT-APPL-SN-536761 US-PATENT-CLASS-128-2S US-PATENT-CLASS-33-155R US-PATENT-CLASS-33-174D	N76-19339* #	c 33	US-PATENT-3,937,555 NASA-CASE-ARC-10810-1 US-PATENT-APPL-SN-489009 US-PATENT-CLASS-204-195R US-PATENT-CLASS-215-247 US-PATENT-CLASS-324-30B US-PATENT-3,938,035	N76-19436* #	c 37	US-PATENT-3,937,555 NASA-CASE-MFS-20607-1 US-PATENT-APPL-SN-478800 US-PATENT-CLASS-222-145 US-PATENT-CLASS-259-4AC US-PATENT-3,941,355	N76-19437* #	c 37	US-PATENT-3,937,555 NASA-CASE-MSC-12815-1 US-PATENT-APPL-SN-491417 US-PATENT-CLASS-244-117A US-PATENT-CLASS-244-163 US-PATENT-CLASS-29-432 US-PATENT-CLASS-29-433 US-PATENT-CLASS-29-526 US-PATENT-CLASS-52-705 US-PATENT-CLASS-52-758F US-PATENT-3,936,927	N76-19785* #	c 52	US-PATENT-3,937,555 NASA-CASE-LAR-11667-1 US-PATENT-APPL-SN-583487 US-PATENT-CLASS-128-DIG.20 US-PATENT-CLASS-128-26 US-PATENT-3,937,215	N76-19888* #	c 66	US-PATENT-3,937,555 NASA-CASE-MFS-22631-1 US-PATENT-APPL-SN-531572 US-PATENT-CLASS-340-38P US-PATENT-CLASS-356-162 US-PATENT-CLASS-356-167 US-PATENT-CLASS-356-71 US-PATENT-3,930,735	N76-19935* #	c 74	US-PATENT-3,937,555 NASA-CASE-MFS-21672-1 US-PATENT-APPL-SN-354060 US-PATENT-CLASS-356-123 US-PATENT-CLASS-356-124 US-PATENT-3,938,892	N76-20114* #	c 04	US-PATENT-3,937,555 NASA-CASE-LAR-11387-1 US-PATENT-APPL-SN-531647 US-PATENT-CLASS-33-356 US-PATENT-CLASS-75-178R US-PATENT-3,943,763	N76-20480* #	c 37	US-PATENT-3,937,555 NASA-CASE-NPO-13059-1 NASA-CASE-NPO-13436-1 US-PATENT-APPL-SN-513690 US-PATENT-CLASS-81-56 US-PATENT-CLASS-81-57.31 US-PATENT-3,942,398	N76-20958* #	c 74	US-PATENT-3,937,555 NASA-CASE-ARC-10631-1 US-PATENT-APPL-SN-514546 US-PATENT-CLASS-250-343 US-PATENT-CLASS-250-573 US-PATENT-3,943,368	N76-20994* #	c 76	US-PATENT-3,937,555 NASA-CASE-NPO-13443-1 US-PATENT-APPL-SN-522551 US-PATENT-CLASS-324-158D US-PATENT-CLASS-324-158R US-PATENT-CLASS-324-158T US-PATENT-CLASS-324-60C US-PATENT-3,943,442	N76-21250* #	c 17	US-PATENT-3,937,555 NASA-CASE-MSC-12593-1 US-PATENT-APPL-SN-419747 US-PATENT-CLASS-325-14 US-PATENT-CLASS-343-100SA US-PATENT-CLASS-343-100ST US-PATENT-CLASS-343-112TC US-PATENT-3,949,400	N76-21275* #	c 20	US-PATENT-3,937,555 NASA-CASE-MFS-21311-1 US-PATENT-APPL-SN-493359 US-PATENT-CLASS-244-3.22 US-PATENT-3,948,470	N76-21276* #	c 20	US-PATENT-3,937,555 NASA-CASE-LEW-11876-1 US-PATENT-APPL-SN-542157 US-PATENT-CLASS-29-25.18 US-PATENT-3,947,933	N76-21365* #	c 32	US-PATENT-3,937,555 NASA-CASE-NPO-13568-1 US-PATENT-APPL-SN-534265 US-PATENT-CLASS-343-761 US-PATENT-CLASS-343-781 US-PATENT-CLASS-343-786 US-PATENT-3,949,404	N76-21366* #	c 32	US-PATENT-3,937,555 NASA-CASE-MFS-22729-1 US-PATENT-APPL-SN-533608 US-PATENT-CLASS-235-156 US-PATENT-CLASS-325-42 US-PATENT-CLASS-333-18 US-PATENT-3,949,206	N76-21390* #	c 33	US-PATENT-3,937,555 NASA-CASE-ARC-10711-2 US-PATENT-APPL-SN-493383 US-PATENT-APPL-SN-596788 US-PATENT-CLASS-317-246 US-PATENT-CLASS-73-398C US-PATENT-3,948,102	N76-21554* #	c 37	US-PATENT-3,937,555 NASA-CASE-LAR-11465-1 US-PATENT-APPL-SN-502137 US-PATENT-CLASS-156-286 US-PATENT-CLASS-156-382 US-PATENT-CLASS-156-556 US-PATENT-CLASS-248-362 US-PATENT-CLASS-248-363 US-PATENT-CLASS-269-21 US-PATENT-CLASS-33-1G US-PATENT-CLASS-33-174B US-PATENT-3,945,879	N76-21742* #	c 45	US-PATENT-3,937,555 NASA-CASE-NPO-13474-1 US-PATENT-APPL-SN-521817 US-PATENT-CLASS-23-254E US-PATENT-CLASS-250-574 US-PATENT-CLASS-356-37 US-PATENT-3,945,801	N76-21914* #	c 60	US-PATENT-3,937,555 NASA-CASE-NPO-13139-1 US-PATENT-APPL-SN-393524 US-PATENT-CLASS-235-153AE US-PATENT-CLASS-340-172.5 US-PATENT-3,950,729	N76-22154* #	c 02	US-PATENT-3,937,555 NASA-CASE-LAR-10585-1 US-PATENT-APPL-SN-197183 US-PATENT-CLASS-244-35R US-PATENT-CLASS-244-40R US-PATENT-3,952,971	N76-22245* #	c 17	US-PATENT-3,937,555 NASA-CASE-GSC-11868-1 US-PATENT-APPL-SN-565290 US-PATENT-CLASS-178-69.5 US-PATENT-CLASS-328-155 US-PATENT-CLASS-340-147SY US-PATENT-CLASS-340-207P US-PATENT-3,953,874	N76-22284* #	c 19	US-PATENT-3,937,555 NASA-CASE-MFS-22905-1 US-PATENT-APPL-SN-518545 US-PATENT-CLASS-188-1B US-PATENT-CLASS-248-22 US-PATENT-CLASS-248-358R US-PATENT-3,952,980	N76-22296* #	c 20	US-PATENT-3,937,555 NASA-CASE-MFS-19220-1 US-PATENT-APPL-SN-571821 US-PATENT-CLASS-254-124 US-PATENT-CLASS-254-93R US-PATENT-CLASS-89-1.801 US-PATENT-3,952,998	N76-22309* #	c 24	US-PATENT-3,937,555 NASA-CASE-LEW-11930-1 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			US-PATENT-CLASS-264-318				NASA-CASE-NPO-13459-1				US-PATENT-CLASS-219-118
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		US-PATENT-4,077,788		US-PATENT-CLASS-424-274		US-PATENT-CLASS-308-10		
		US-PATENT-4,193,827		US-PATENT-4,230,717		US-PATENT-CLASS-73-505		
		US-PATENT-4,229,196		NASA-CASE-LAR-12326-1		US-PATENT-4,218,921		
N81-14137* #	c 31	NASA-CASE-KSC-11064-1	N81-14968* #	c 02	US-PATENT-APPL-SN-019541	N81-16209* #	c 26	NASA-CASE-LEW-23169-2
		US-PATENT-APPL-SN-897840		US-PATENT-CLASS-102-56R		US-PATENT-APPL-SN-191746		
		US-PATENT-CLASS-169-62		US-PATENT-CLASS-102-92.1	N81-16338* #	c 32	NASA-CASE-MS-16170-2	
		US-PATENT-CLASS-169-70		US-PATENT-CLASS-244-119		US-PATENT-APPL-SN-147695		
		US-PATENT-4,219,084		US-PATENT-CLASS-244-130	N81-16469* #	c 37	NASA-CASE-GSC-12582-1	
N81-14185* #	c 32	NASA-CASE-NPO-14536-1		US-PATENT-4,225,102		US-PATENT-APPL-SN-220213		
		US-PATENT-APPL-SN-974471	N81-14999* #	c 07	NASA-CASE-LEW-13201-1	N81-17057* #	c 06	NASA-CASE-FRC-11029-1
		US-PATENT-CLASS-343-100TD		US-PATENT-APPL-SN-038980		US-PATENT-APPL-SN-164617		
		US-PATENT-4,233,606		US-PATENT-CLASS-137-15.1		US-PATENT-CLASS-73-147		
N81-14186* #	c 32	NASA-CASE-NPO-14749-1		US-PATENT-CLASS-181-214		US-PATENT-CLASS-73-178R		
		US-PATENT-APPL-SN-078521		US-PATENT-4,220,171		US-PATENT-4,240,290		
		US-PATENT-CLASS-375-107	N81-15104* #	c 27	NASA-CASE-NPO-10830-1	N81-17170* #	c 24	NASA-CASE-LEW-12493-1
		US-PATENT-CLASS-455-51		US-PATENT-APPL-SN-825489		US-PATENT-APPL-SN-893857		
		US-PATENT-CLASS-455-619		US-PATENT-CLASS-117-6		US-PATENT-CLASS-156-292		
		US-PATENT-CLASS-455-71		US-PATENT-CLASS-138.8R		US-PATENT-CLASS-228-118		
		US-PATENT-4,234,971		US-PATENT-CLASS-260-33.6UB		US-PATENT-CLASS-228-170		
N81-14187* #	c 32	NASA-CASE-MS-16800-1		US-PATENT-CLASS-33.8UB		US-PATENT-CLASS-228-174		
		US-PATENT-APPL-SN-953313		US-PATENT-CLASS-37N		US-PATENT-CLASS-228-190		
		US-PATENT-CLASS-343-727		US-PATENT-CLASS-41R		US-PATENT-4,211,354		
		US-PATENT-CLASS-343-789		US-PATENT-CLASS-77.5AQ	N81-17187* #	c 25	NASA-CASE-NPO-13530-1	
		US-PATENT-CLASS-343-797		US-PATENT-CLASS-77.5CH		US-PATENT-CLASS-210-500M		
		US-PATENT-4,218,685		US-PATENT-CLASS-859R		US-PATENT-CLASS-260-2.1		
N81-14220* #	c 33	NASA-CASE-NPO-14163-1		US-PATENT-CLASS-94.9N		US-PATENT-CLASS-260-2.2R		
		US-PATENT-APPL-SN-878541		US-PATENT-3,655,814		US-PATENT-4,014,798		
		US-PATENT-CLASS-363-56	N81-15107* #	c 27	NASA-CASE-LAR-12723-1	N81-17259* #	c 27	NASA-CASE-ARC-11248-1
		US-PATENT-CLASS-363-71		US-PATENT-APPL-SN-199768		US-PATENT-APPL-SN-028300		
		US-PATENT-CLASS-363-78	N81-15119* #	c 28	NASA-CASE-NPO-14110-1		US-PATENT-CLASS-528-362	
		US-PATENT-4,222,098		US-PATENT-APPL-SN-947000		US-PATENT-CLASS-528-401		
N81-14221* #	c 33	NASA-CASE-GSC-12411-1		US-PATENT-CLASS-149-108.4		US-PATENT-CLASS-528-422		
		US-PATENT-APPL-SN-965367		US-PATENT-CLASS-23-293R		US-PATENT-CLASS-528-423		
		US-PATENT-CLASS-340-309.4		US-PATENT-CLASS-252-364		US-PATENT-4,242,498		
		US-PATENT-CLASS-340-310A		US-PATENT-CLASS-260-96D	N81-17260* #	c 27	NASA-CASE-LEW-13226-1	
		US-PATENT-CLASS-340-310R		US-PATENT-CLASS-423-1		US-PATENT-APPL-SN-070771		
		US-PATENT-CLASS-340-870.24		US-PATENT-CLASS-423-131		US-PATENT-CLASS-260-326N		
		US-PATENT-CLASS-368-47		US-PATENT-CLASS-423-658.5		US-PATENT-CLASS-260-326S		
		US-PATENT-CLASS-370-85		US-PATENT-CLASS-525-384		US-PATENT-CLASS-260-37EP		
		US-PATENT-4,228,422		US-PATENT-CLASS-528-914		US-PATENT-CLASS-528-118		
N81-14287* #	c 35	NASA-CASE-NPO-14513-1		US-PATENT-CLASS-75-25		US-PATENT-CLASS-528-322		
		US-PATENT-APPL-SN-025162		US-PATENT-4,229,182		US-PATENT-CLASS-538-117		
		US-PATENT-CLASS-165-105	N81-15154* #	c 31	NASA-CASE-NPO-13758-2		US-PATENT-4,244,857	
		US-PATENT-CLASS-62-514R		US-PATENT-APPL-SN-623389	N81-17261* #	c 27	NASA-CASE-NPO-14315-1	
		US-PATENT-4,218,892		US-PATENT-APPL-SN-727444		US-PATENT-APPL-SN-900659		
N81-14317* #	c 37	NASA-CASE-MS-16973-1		US-PATENT-CLASS-110-218		US-PATENT-CLASS-201-10		
		US-PATENT-APPL-SN-969756		US-PATENT-CLASS-110-229		US-PATENT-CLASS-201-25		
		US-PATENT-CLASS-150-11		US-PATENT-CLASS-110-232		US-PATENT-CLASS-201-8		
		US-PATENT-CLASS-156-294		US-PATENT-CLASS-110-343		US-PATENT-CLASS-44-50		
		US-PATENT-CLASS-52-232		US-PATENT-CLASS-110-347		US-PATENT-CLASS-44-62		
		US-PATENT-CLASS-52-743		US-PATENT-CLASS-202-118		US-PATENT-4,246,001		
		US-PATENT-4,235,060		US-PATENT-CLASS-264-23	N81-17262* #	c 27	NASA-CASE-ARC-11253-1	
N81-14318* #	c 37	NASA-CASE-NPO-14220-1		US-PATENT-CLASS-425-378R		US-PATENT-APPL-SN-028301		
		US-PATENT-APPL-SN-907421		US-PATENT-4,206,713		US-PATENT-CLASS-528-310		
		US-PATENT-CLASS-60-518	N81-15179* #	c 32	NASA-CASE-MS-18035-1		US-PATENT-CLASS-528-362	
		US-PATENT-CLASS-74-417		US-PATENT-APPL-SN-041142		US-PATENT-CLASS-528-401		
		US-PATENT-4,228,656		US-PATENT-CLASS-375-1		US-PATENT-CLASS-528-422		
N81-14319* #	c 37	NASA-CASE-LAR-11855-1		US-PATENT-CLASS-375-115		US-PATENT-4,245,085		
		US-PATENT-APPL-SN-953314		US-PATENT-CLASS-375-58	N81-17348* #	c 33	NASA-CASE-MFS-23845-1	
		US-PATENT-CLASS-407-117		US-PATENT-4,221,005		US-PATENT-APPL-SN-938298		
		US-PATENT-CLASS-407-85	N81-15192* #	c 33	NASA-CASE-NPO-14444-1		US-PATENT-CLASS-307-233R	
		US-PATENT-CLASS-408-1R		US-PATENT-APPL-SN-017890		US-PATENT-CLASS-307-306		
		US-PATENT-CLASS-82-1.2		US-PATENT-CLASS-332-22		US-PATENT-CLASS-333-204		
		US-PATENT-CLASS-82-1C		US-PATENT-CLASS-332-23R		US-PATENT-4,227,096		
		US-PATENT-CLASS-82-36R		US-PATENT-CLASS-375-54	N81-17349* #	c 33	NASA-CASE-MS-16747-1	
		US-PATENT-4,218,941		US-PATENT-CLASS-375-67		US-PATENT-APPL-SN-974475		
N81-14320* #	c 37	NASA-CASE-GSC-12429-1		US-PATENT-CLASS-455-102		US-PATENT-CLASS-328-134		
		US-PATENT-APPL-SN-009888		US-PATENT-4,216,542		US-PATENT-CLASS-328-37		
		US-PATENT-CLASS-244-161	N81-15194* #	c 33	NASA-CASE-NPO-14998-1		US-PATENT-CLASS-328-55	
		US-PATENT-CLASS-294-106		US-PATENT-APPL-SN-195547		US-PATENT-CLASS-331-48		
		US-PATENT-CLASS-414-1	N81-15363* #	c 37	NASA-CASE-MS-18134-1		US-PATENT-4,241,308	
		US-PATENT-4,219,171		US-PATENT-APPL-SN-974472	N81-17432* #	c 37	NASA-CASE-NPO-14388-1	
N81-14389* #	c 44	NASA-CASE-NPO-14416-1		US-PATENT-CLASS-277-181		US-PATENT-APPL-SN-008208		
		US-PATENT-APPL-SN-014664		US-PATENT-CLASS-277-229		US-PATENT-CLASS-60-518		
		US-PATENT-CLASS-29-DIG.1		US-PATENT-4,219,203		US-PATENT-CLASS-74-417		
		US-PATENT-CLASS-29-832	N81-15364* #	c 37	NASA-CASE-NPO-14170-1		US-PATENT-4,240,256	
		US-PATENT-4,219,926		US-PATENT-APPL-SN-860404	N81-17433* #	c 37	NASA-CASE-ARC-11251-1	
N81-14605* #	c 51	NASA-CASE-ARC-11114-1		US-PATENT-CLASS-188-134		US-PATENT-APPL-SN-057465		
		US-PATENT-APPL-SN-951422		US-PATENT-CLASS-188-180		US-PATENT-CLASS-128-DIG.20		
		US-PATENT-CLASS-128-DIG.12		US-PATENT-CLASS-188-184		US-PATENT-CLASS-137-549		
		US-PATENT-CLASS-128-DIG.16		US-PATENT-CLASS-244-173		US-PATENT-CLASS-137-886		
		US-PATENT-CLASS-128-DIG.26		US-PATENT-4,219,107		US-PATENT-CLASS-137-887		
		US-PATENT-CLASS-128-DIG.6	N81-15706* #	c 60	NASA-CASE-NPO-14162-1		US-PATENT-CLASS-251-216	
		US-PATENT-CLASS-128-DIG.9		NASA-CASE-NPO-14167-1		US-PATENT-CLASS-251-339		
		US-PATENT-CLASS-128-204.18		NASA-CASE-NPO-14169-1		US-PATENT-4,239,057		
		US-PATENT-CLASS-128-207.14		US-PATENT-APPL-SN-893903	N81-17499* #	c 43	NASA-CASE-FRC-11013-1	
		US-PATENT-CLASS-128-207.28		US-PATENT-CLASS-307-219		US-PATENT-APPL-SN-043912		
		US-PATENT-CLASS-128-236		US-PATENT-CLASS-307-225R		US-PATENT-CLASS-244-160		
		US-PATENT-4,212,297		US-PATENT-CLASS-307-269		US-PATENT-CLASS-244-49		
N81-14612* #	c 52	NASA-CASE-ARC-11117-1		US-PATENT-CLASS-307-291		US-PATENT-4,240,601		
		US-PATENT-APPL-SN-003693		US-PATENT-CLASS-328-192	N81-17518* #	c 44	NASA-CASE-NPO-14618-1	
		US-PATENT-CLASS-128-642		US-PATENT-CLASS-328-48		US-PATENT-APPL-SN-027559		
		US-PATENT-4,219,027		US-PATENT-CLASS-328-71		US-PATENT-CLASS-126-419		
N81-14613* #	c 52	NASA-CASE-ARC-11118-2		US-PATENT-4,213,064		US-PATENT-CLASS-60-524		
		US-PATENT-APPL-SN-850504	N81-15767* #	c 71	NASA-CASE-MFS-25050-1		US-PATENT-CLASS-60-641	

N81-17886* #	c 74	US-PATENT-4,236,383 NASA-CASE-NPO-14219-1 US-PATENT-APPL-SN-888432 US-PATENT-CLASS-350-301 US-PATENT-CLASS-354-118 US-PATENT-CLASS-362-11 US-PATENT-CLASS-362-241 US-PATENT-4,213,684	N81-19426* #	c 35	US-PATENT-CLASS-363-36 US-PATENT-CLASS-363-40 US-PATENT-CLASS-363-47 US-PATENT-4,245,288 NASA-CASE-MFS-23923-1 US-PATENT-APPL-SN-053569 US-PATENT-CLASS-73-190R US-PATENT-4,248,083	N81-24258* #	c 27	US-PATENT-CLASS-429-28 US-PATENT-CLASS-525-61 US-PATENT-4,262,067 NASA-CASE-NPO-10424-1 US-PATENT-APPL-SN-692636 US-PATENT-CLASS-260-37 US-PATENT-3,651,008
N81-17887* #	c 74	NASA-CASE-NPO-14657-1 US-PATENT-APPL-SN-008211 US-PATENT-CLASS-356-432 US-PATENT-CLASS-73-15R US-PATENT-4,243,327	N81-19427* #	c 35	NASA-CASE-MSC-16370-1 US-PATENT-APPL-SN-061556 US-PATENT-CLASS-329-107 US-PATENT-CLASS-329-50 US-PATENT-CLASS-375-1 US-PATENT-CLASS-375-104 US-PATENT-CLASS-375-34 US-PATENT-CLASS-375-99 US-PATENT-4,241,312	N81-24280* #	c 28	NASA-CASE-MSC-16394-1 US-PATENT-APPL-SN-161255 US-PATENT-CLASS-204-129 US-PATENT-CLASS-204-252 US-PATENT-CLASS-204-266 US-PATENT-CLASS-204-290F US-PATENT-CLASS-204-290R US-PATENT-CLASS-204-291 US-PATENT-4,263,112
N81-17888* #	c 74	NASA-CASE-NPO-14502-1 US-PATENT-APPL-SN-965368 US-PATENT-CLASS-356-345 US-PATENT-CLASS-356-352 US-PATENT-CLASS-356-358 US-PATENT-4,243,323	N81-19455* #	c 37	NASA-CASE-LEW-12982-1 US-PATENT-APPL-SN-929084 US-PATENT-CLASS-204-192E US-PATENT-CLASS-228-116 US-PATENT-CLASS-228-205 US-PATENT-4,245,768	N81-24338* #	c 33	NASA-CASE-NPO-14617-1 US-PATENT-APPL-SN-051269 US-PATENT-CLASS-330-8 US-PATENT-4,262,259
N81-19016* #	c 02	NASA-CASE-LAR-12750-1 US-PATENT-APPL-SN-210491	N81-19558* #	c 44	US-PATENT-CLASS-228-205 US-PATENT-4,245,768 NASA-CASE-NPO-14670-1 US-PATENT-APPL-SN-043941 US-PATENT-CLASS-136-258 US-PATENT-CLASS-252-62.3E US-PATENT-CLASS-357-30 US-PATENT-CLASS-357-59 US-PATENT-CLASS-357-63 US-PATENT-4,249,957	N81-24422* #	c 36	NASA-CASE-LAR-12177-1 US-PATENT-APPL-SN-027558 US-PATENT-CLASS-356-28.5 US-PATENT-CLASS-356-356 US-PATENT-CLASS-356-358 US-PATENT-4,255,048
N81-19087* #	c 05	NASA-CASE-LAR-11797-1 US-PATENT-APPL-SN-969755 US-PATENT-CLASS-244-17.25 US-PATENT-CLASS-416-114 US-PATENT-CLASS-416-500 US-PATENT-CLASS-74-519 US-PATENT-4,245,956	N81-19896* #	c 74	US-PATENT-CLASS-357-63 US-PATENT-4,249,957 NASA-CASE-NPO-11337-1 NASA-CASE-NPO-11575-1 US-PATENT-APPL-SN-090584 US-PATENT-APPL-SN-276599 US-PATENT-CLASS-340-146.3H US-PATENT-CLASS-340-146.3S US-PATENT-CLASS-340-146.3Y US-PATENT-3,845,466	N81-24425* #	c 36	NASA-CASE-NPO-15211-1 US-PATENT-APPL-SN-246779
N81-19115* #	c 07	NASA-CASE-LEW-12907-2 US-PATENT-APPL-SN-752050 US-PATENT-APPL-SN-909235 US-PATENT-CLASS-364-106 US-PATENT-CLASS-364-431 US-PATENT-CLASS-60-39.24 US-PATENT-4,249,238	N81-19898* #	c 74	US-PATENT-CLASS-357-97 US-PATENT-4,249,957 NASA-CASE-NPO-11337-1 NASA-CASE-NPO-11575-1 US-PATENT-APPL-SN-090584 US-PATENT-APPL-SN-276599 US-PATENT-CLASS-340-146.3H US-PATENT-CLASS-340-146.3S US-PATENT-CLASS-340-146.3Y US-PATENT-3,845,466	N81-24442* #	c 37	NASA-CASE-LEW-12991-1 US-PATENT-APPL-SN-961832 US-PATENT-CLASS-277-96 US-PATENT-4,260,166
N81-19116* #	c 07	NASA-CASE-LEW-12594-2 US-PATENT-APPL-SN-741056 US-PATENT-APPL-SN-909608 US-PATENT-CLASS-60-226R US-PATENT-CLASS-60-236 US-PATENT-CLASS-60-238 US-PATENT-CLASS-60-239 US-PATENT-4,242,864	N81-20352* #	c 33	US-PATENT-CLASS-250-83.6R US-PATENT-3,704,284 NASA-CASE-NPO-13970-1 US-PATENT-APPL-SN-023484 US-PATENT-CLASS-318-138 US-PATENT-CLASS-318-254 US-PATENT-CLASS-318-439 US-PATENT-4,249,116	N81-24443* #	c 37	NASA-CASE-LAR-11695-2 US-PATENT-APPL-SN-103836 US-PATENT-APPL-SN-893865 US-PATENT-CLASS-152-330RF US-PATENT-CLASS-152-353G US-PATENT-CLASS-152-353R US-PATENT-CLASS-152-379.4 US-PATENT-CLASS-244-103R US-PATENT-CLASS-244-130 US-PATENT-4,267,992
N81-19130* #	c 08	NASA-CASE-LAR-11970-2 US-PATENT-APPL-SN-034104 US-PATENT-APPL-SN-727503 US-PATENT-CLASS-244-12.5 US-PATENT-CLASS-244-52 US-PATENT-CLASS-244-87 US-PATENT-4,236,684	N81-20703* #	c 52	US-PATENT-CLASS-318-439 US-PATENT-4,249,116 NASA-CASE-NPO-14329-1 US-PATENT-APPL-SN-044432 US-PATENT-CLASS-128-642 US-PATENT-CLASS-128-774 US-PATENT-CLASS-73-141A US-PATENT-4,249,417	N81-24519* #	c 44	NASA-CASE-LEW-12441-3 US-PATENT-APPL-SN-032307 US-PATENT-APPL-SN-856462 US-PATENT-CLASS-239-127.1 US-PATENT-CLASS-60-204 US-PATENT-CLASS-60-267 US-PATENT-4,199,937 US-PATENT-4,245,469
N81-19242* #	c 25	NASA-CASE-MFS-25000-1 US-PATENT-APPL-SN-974474 US-PATENT-CLASS-260-29.6RB US-PATENT-CLASS-526-201 US-PATENT-CLASS-526-88 US-PATENT-4,247,434	N81-21047* #	c 04	US-PATENT-CLASS-73-504 US-PATENT-4,244,215 NASA-CASE-NPO-15264-1 US-PATENT-APPL-SN-241154 NASA-CASE-MFS-24368-3 US-PATENT-APPL-SN-243683 NASA-CASE-GSC-12609-1 US-PATENT-APPL-SN-218586 NASA-CASE-GSC-12650-1 US-PATENT-APPL-SN-238888 NASA-CASE-LEW-12445-1 US-PATENT-APPL-SN-238887 NASA-CASE-NPO-15155-1 US-PATENT-APPL-SN-242797 NASA-CASE-LAR-12268-1 US-PATENT-APPL-SN-015996 US-PATENT-CLASS-244-181 US-PATENT-CLASS-244-195 US-PATENT-CLASS-318-584 US-PATENT-CLASS-364-434 US-PATENT-4,261,537	N81-24520* #	c 44	NASA-CASE-MFS-23999-1 US-PATENT-APPL-SN-060435 US-PATENT-CLASS-250-203R US-PATENT-CLASS-250-209 US-PATENT-4,262,195
N81-19244* #	c 25	NASA-CASE-NPO-13309-1 US-PATENT-APPL-SN-363130 US-PATENT-CLASS-210-24 US-PATENT-CLASS-260-2.1E US-PATENT-CLASS-260-2.2R US-PATENT-CLASS-264-41 US-PATENT-3,944,485	N81-22036* #	c 04	US-PATENT-CLASS-73-504 US-PATENT-4,244,215 NASA-CASE-NPO-15264-1 US-PATENT-APPL-SN-241154 NASA-CASE-MFS-24368-3 US-PATENT-APPL-SN-243683 NASA-CASE-GSC-12609-1 US-PATENT-APPL-SN-218586 NASA-CASE-GSC-12650-1 US-PATENT-APPL-SN-238888 NASA-CASE-LEW-12445-1 US-PATENT-APPL-SN-238887 NASA-CASE-NPO-15155-1 US-PATENT-APPL-SN-242797 NASA-CASE-LAR-12268-1 US-PATENT-APPL-SN-015996 US-PATENT-CLASS-244-181 US-PATENT-CLASS-244-195 US-PATENT-CLASS-318-584 US-PATENT-CLASS-364-434 US-PATENT-4,261,537	N81-24521* #	c 44	US-PATENT-CLASS-250-209 US-PATENT-4,262,195 NASA-CASE-LEW-12918-1 US-PATENT-APPL-SN-134855 US-PATENT-CLASS-429-120 US-PATENT-CLASS-429-160 US-PATENT-CLASS-429-164 US-PATENT-CLASS-429-94 US-PATENT-4,262,064
N81-19296* #	c 27	NASA-CASE-LEW-12933-1 US-PATENT-APPL-SN-027557 US-PATENT-CLASS-260-33.4R US-PATENT-CLASS-427-221 US-PATENT-CLASS-427-378 US-PATENT-CLASS-528-353 US-PATENT-4,244,853	N81-22280* #	c 33	US-PATENT-CLASS-364-434 US-PATENT-4,261,537 NASA-CASE-MFS-24368-3 US-PATENT-APPL-SN-243683 NASA-CASE-GSC-12609-1 US-PATENT-APPL-SN-218586 NASA-CASE-GSC-12650-1 US-PATENT-APPL-SN-238888 NASA-CASE-LEW-12445-1 US-PATENT-APPL-SN-238887 NASA-CASE-NPO-15155-1 US-PATENT-APPL-SN-242797 NASA-CASE-LAR-12268-1 US-PATENT-APPL-SN-015996 US-PATENT-CLASS-244-181 US-PATENT-CLASS-244-195 US-PATENT-CLASS-318-584 US-PATENT-CLASS-364-434 US-PATENT-4,261,537	N81-24525* #	c 44	US-PATENT-CLASS-429-94 US-PATENT-4,262,064 NASA-CASE-LAR-12588-1 US-PATENT-APPL-SN-234222
N81-19343* #	c 31	NASA-CASE-GSC-12513-1 US-PATENT-APPL-SN-053571 US-PATENT-CLASS-109-49.5 US-PATENT-CLASS-109-58.5 US-PATENT-CLASS-220-82R US-PATENT-CLASS-220-89A US-PATENT-CLASS-49-171 US-PATENT-4,245,566	N81-22344* #	c 36	US-PATENT-CLASS-364-434 US-PATENT-4,261,537 NASA-CASE-MFS-24368-3 US-PATENT-APPL-SN-243683 NASA-CASE-GSC-12609-1 US-PATENT-APPL-SN-218586 NASA-CASE-GSC-12650-1 US-PATENT-APPL-SN-238888 NASA-CASE-LEW-12445-1 US-PATENT-APPL-SN-238887 NASA-CASE-NPO-15155-1 US-PATENT-APPL-SN-242797 NASA-CASE-LAR-12268-1 US-PATENT-APPL-SN-015996 US-PATENT-CLASS-244-181 US-PATENT-CLASS-244-195 US-PATENT-CLASS-318-584 US-PATENT-CLASS-364-434 US-PATENT-4,261,537	N81-24711* #	c 52	US-PATENT-CLASS-234-222 NASA-CASE-MSC-16433-1 US-PATENT-APPL-SN-910992 US-PATENT-CLASS-128-295 US-PATENT-CLASS-128-761 US-PATENT-CLASS-4-144.3 US-PATENT-4,246,901
N81-19389* #	c 33	NASA-CASE-NPO-14297-1 US-PATENT-APPL-SN-938299 US-PATENT-CLASS-156-DIG.96 US-PATENT-CLASS-156-608 US-PATENT-CLASS-219-10.49R US-PATENT-CLASS-219-10.67 US-PATENT-CLASS-422-246 US-PATENT-CLASS-422-249 US-PATENT-CLASS-432-264 US-PATENT-4,242,553	N81-22360* #	c 37	US-PATENT-CLASS-364-434 US-PATENT-4,261,537 NASA-CASE-MFS-24368-3 US-PATENT-APPL-SN-243683 NASA-CASE-GSC-12609-1 US-PATENT-APPL-SN-218586 NASA-CASE-GSC-12650-1 US-PATENT-APPL-SN-238888 NASA-CASE-LEW-12445-1 US-PATENT-APPL-SN-238887 NASA-CASE-NPO-15155-1 US-PATENT-APPL-SN-242797 NASA-CASE-LAR-12268-1 US-PATENT-APPL-SN-015996 US-PATENT-CLASS-244-181 US-PATENT-CLASS-244-195 US-PATENT-CLASS-318-584 US-PATENT-CLASS-364-434 US-PATENT-4,261,537	N81-24724* #	c 54	US-PATENT-CLASS-422-30 US-PATENT-CLASS-422-34 US-PATENT-4,250,143 NASA-CASE-KSC-11085-1 US-PATENT-APPL-SN-046739 US-PATENT-CLASS-261-79A US-PATENT-CLASS-422-109 US-PATENT-CLASS-422-27 US-PATENT-CLASS-422-30 US-PATENT-CLASS-422-34 US-PATENT-4,250,143
N81-19392* #	c 33	NASA-CASE-GSC-12360-1 US-PATENT-APPL-SN-041164 US-PATENT-CLASS-363-101 US-PATENT-CLASS-363-21 US-PATENT-4,245,286	N81-22894* #	c 74	US-PATENT-CLASS-364-434 US-PATENT-4,261,537 NASA-CASE-MFS-24368-3 US-PATENT-APPL-SN-243683 NASA-CASE-GSC-12609-1 US-PATENT-APPL-SN-218586 NASA-CASE-GSC-12650-1 US-PATENT-APPL-SN-238888 NASA-CASE-LEW-12445-1 US-PATENT-APPL-SN-238887 NASA-CASE-NPO-15155-1 US-PATENT-APPL-SN-242797 NASA-CASE-LAR-12268-1 US-PATENT-APPL-SN-015996 US-PATENT-CLASS-244-181 US-PATENT-CLASS-244-195 US-PATENT-CLASS-318-584 US-PATENT-CLASS-364-434 US-PATENT-4,261,537	N81-24779* #	c 62	US-PATENT-CLASS-422-34 US-PATENT-4,250,143 NASA-CASE-KSC-11048-1 US-PATENT-APPL-SN-023437 US-PATENT-CLASS-364-200 US-PATENT-4,254,464
N81-19393* #	c 33	NASA-CASE-NPO-14505-1 US-PATENT-APPL-SN-956166 US-PATENT-CLASS-363-21	N81-24256* #	c 27	US-PATENT-CLASS-429-249 US-PATENT-CLASS-429-253 US-PATENT-CLASS-429-27 NASA-CASE-LEW-13135-2 US-PATENT-APPL-SN-113014 US-PATENT-APPL-SN-971475 US-PATENT-CLASS-264-104 US-PATENT-CLASS-264-105 US-PATENT-CLASS-429-139 US-PATENT-CLASS-429-249 US-PATENT-CLASS-429-253 US-PATENT-CLASS-429-27 NASA-CASE-LEW-13135-2 US-PATENT-APPL-SN-113014 US-PATENT-APPL-SN-971475 US-PATENT-CLASS-264-104 US-PATENT-CLASS-264-105 US-PATENT-CLASS-429-139 US-PATENT-CLASS-429-249 US-PATENT-CLASS-429-253 US-PATENT-CLASS-429-27 NASA-CASE-LEW-13135-2 US-PATENT-APPL-SN-113014 US-PATENT-APPL-SN-971475 US-PATENT-CLASS-264-104 US-PATENT-CLASS-264-105 US-PATENT-CLASS-429-139 US-PATENT-CLASS-429-249 US-PATENT-CLASS-429-253 US-PATENT-CLASS-429-27 NASA-CASE-LEW-13135-2 US-PATENT-APPL-SN-113014 US-PATENT-APPL-SN-971475 US-PATENT-CLASS-264-104 US-PATENT-CLASS-264-105 US-PATENT-CLASS-429-139 US-PATENT-CLASS-429-249 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		US-PATENT-APPL-SN-089779			US-PATENT-APPL-SN-893857	N81-27324* #	c 31	NASA-CASE-LAR-12195-1
		US-PATENT-CLASS-428-471			US-PATENT-CLASS-228-118			US-PATENT-APPL-SN-946991
		US-PATENT-CLASS-428-632			US-PATENT-CLASS-228-190			US-PATENT-CLASS-182-62.5
		US-PATENT-CLASS-428-678			US-PATENT-4,211,354			US-PATENT-CLASS-212-267
		US-PATENT-CLASS-428-679			US-PATENT-4,267,953			US-PATENT-CLASS-52-111
		US-PATENT-CLASS-428-680			NASA-CASE-LAR-12196-1			US-PATENT-CLASS-52-632
		US-PATENT-4,255,495	N81-26358* #	c 33	US-PATENT-APPL-SN-017887	N81-27341* #	c 32	US-PATENT-4,238,911
N81-25209* #	c 27	NASA-CASE-MSC-18107-1			US-PATENT-CLASS-343-100PE			NASA-CASE-GSC-12147-1
		US-PATENT-APPL-SN-956168			US-PATENT-4,264,908			US-PATENT-APPL-SN-780873
		US-PATENT-CLASS-430-271	N81-26359* #	c 33	NASA-CASE-KSC-11065-1			US-PATENT-CLASS-343-112R
		US-PATENT-CLASS-430-325			US-PATENT-APPL-SN-051271	N81-27395* #	c 33	US-PATENT-4,276,553
		US-PATENT-CLASS-430-329			US-PATENT-CLASS-324-51			NASA-CASE-MFS-23988-1
		US-PATENT-CLASS-430-330			US-PATENT-CLASS-324-73AT			US-PATENT-APPL-SN-044431
		US-PATENT-4,262,080			US-PATENT-CLASS-371-20			US-PATENT-CLASS-307-252UA
N81-25258* #	c 31	NASA-CASE-LAR-12095-1			US-PATENT-CLASS-371-25			US-PATENT-CLASS-318-799
		US-PATENT-APPL-SN-811401			US-PATENT-4,267,594			US-PATENT-CLASS-318-810
		US-PATENT-CLASS-244-158R	N81-26360* #	c 33	NASA-CASE-GSC-12515-1			US-PATENT-4,266,177
		US-PATENT-CLASS-403-171			US-PATENT-APPL-SN-172727	N81-27396* #	c 33	NASA-CASE-NPO-14426-1
		US-PATENT-CLASS-428-902			US-PATENT-CLASS-148-1.5			US-PATENT-APPL-SN-009899
		US-PATENT-CLASS-52-309.1			US-PATENT-CLASS-148-187			US-PATENT-CLASS-307-352
		US-PATENT-CLASS-52-648			US-PATENT-CLASS-156-647			US-PATENT-CLASS-307-353
		US-PATENT-CLASS-52-726			US-PATENT-CLASS-156-648			US-PATENT-CLASS-328-151
		US-PATENT-4,259,821			US-PATENT-CLASS-156-649			US-PATENT-4,262,258
N81-25259* #	c 31	NASA-CASE-LAR-12077-1			US-PATENT-CLASS-29-571	N81-27397* #	c 33	NASA-CASE-MSC-12745-1
		US-PATENT-APPL-SN-014663			US-PATENT-CLASS-29-578			US-PATENT-APPL-SN-746579
		US-PATENT-CLASS-52-645			US-PATENT-CLASS-29-580			US-PATENT-CLASS-179-78
		US-PATENT-4,259,825			US-PATENT-CLASS-357-23			US-PATENT-CLASS-333-12
N81-25278* #	c 32	NASA-CASE-NPO-14588-1			US-PATENT-CLASS-357-55			US-PATENT-CLASS-361-56
		US-PATENT-APPL-SN-008209			US-PATENT-CLASS-357-60			US-PATENT-CLASS-361-91
		US-PATENT-CLASS-343-755			US-PATENT-CLASS-357-91			US-PATENT-4,264,940
		US-PATENT-CLASS-343-772	N81-26402* #	c 34	US-PATENT-4,272,302	N81-27519* #	c 37	NASA-CASE-NPO-14521-1
		US-PATENT-CLASS-343-781R			NASA-CASE-KSC-11078-1			US-PATENT-APPL-SN-023439
		US-PATENT-CLASS-343-786			US-PATENT-APPL-SN-051274			US-PATENT-CLASS-244-161
		US-PATENT-4,258,366			US-PATENT-CLASS-364-510			US-PATENT-CLASS-294-86R
N81-25299* #	c 33	NASA-CASE-GSC-12399-1			US-PATENT-CLASS-384-571			US-PATENT-CLASS-318-640
		US-PATENT-APPL-SN-961831			US-PATENT-CLASS-73-861			US-PATENT-CLASS-356-152
		US-PATENT-CLASS-70-58			US-PATENT-4,253,156			US-PATENT-CLASS-414-730
		US-PATENT-4,252,007	N81-26431* #	c 35	NASA-CASE-FRC-10112-1			US-PATENT-4,260,187
N81-25370* #	c 37	NASA-CASE-NPO-14221-1			US-PATENT-APPL-SN-122965	N81-27599* #	c 44	NASA-CASE-NPO-15419-1
		US-PATENT-APPL-SN-907431			US-PATENT-CLASS-219-209			US-PATENT-APPL-SN-259208
		US-PATENT-CLASS-60-517			US-PATENT-CLASS-219-210	N81-27615* #	c 44	NASA-CASE-LEW-13556-1
		US-PATENT-CLASS-60-525			US-PATENT-CLASS-219-510			US-PATENT-APPL-SN-272233
		US-PATENT-4,255,929			US-PATENT-CLASS-236-1F	N81-27783* #	c 52	NASA-CASE-NPO-14402-1
N81-25371* #	c 37	NASA-CASE-NPO-13823-1			US-PATENT-CLASS-361-334			US-PATENT-APPL-SN-855384
		US-PATENT-APPL-SN-658487			US-PATENT-CLASS-73-361			US-PATENT-CLASS-128-665
		US-PATENT-CLASS-106-43			US-PATENT-4,264,802			US-PATENT-CLASS-356-406
		US-PATENT-CLASS-264-332	N81-26447* #	c 37	NASA-CASE-LEW-12119-2			US-PATENT-CLASS-356-407
		US-PATENT-4,252,768			US-PATENT-APPL-SN-102004			US-PATENT-CLASS-356-416
N81-25400* #	c 39	NASA-CASE-NPO-14363-1			US-PATENT-APPL-SN-872219			US-PATENT-4,170,987
		US-PATENT-APPL-SN-969760			US-PATENT-CLASS-277-153	N81-27808* #	c 54	NASA-CASE-LAR-12320-1
		US-PATENT-CLASS-356-213			US-PATENT-CLASS-277-193			US-PATENT-APPL-SN-043913
		US-PATENT-CLASS-356-216			US-PATENT-4,212,477			US-PATENT-CLASS-434-59
		US-PATENT-CLASS-356-234			US-PATENT-4,266,788			US-PATENT-4,264,310
		US-PATENT-CLASS-356-32	N81-26509* #	c 43	NASA-CASE-NPO-14140-1	N81-27814* #	c 60	NASA-CASE-NPO-14554-1
		US-PATENT-4,252,440			NASA-CASE-NPO-14382-1			US-PATENT-APPL-SN-974473
N81-25660* #	c 52	NASA-CASE-MFS-23717-1			US-PATENT-APPL-SN-897832			US-PATENT-CLASS-364-200
		US-PATENT-APPL-SN-950877			US-PATENT-CLASS-134-17			US-PATENT-CLASS-364-900
		US-PATENT-CLASS-128-DIG.25			US-PATENT-CLASS-166-222			US-PATENT-CLASS-370-58
		US-PATENT-CLASS-128-1R			US-PATENT-CLASS-166-77			US-PATENT-4,264,984
		US-PATENT-CLASS-128-346			US-PATENT-CLASS-239-562	N81-28698* #	c 51	NASA-CASE-LAR-12520-1
		US-PATENT-CLASS-137-493			US-PATENT-CLASS-239-591			US-PATENT-APPL-SN-067596
		US-PATENT-4,256,093			US-PATENT-CLASS-289-13			US-PATENT-CLASS-204-1T
N81-25661* #	c 52	NASA-CASE-GSC-12082-2			US-PATENT-CLASS-289-17			US-PATENT-CLASS-204-195B
		US-PATENT-APPL-SN-676958			US-PATENT-CLASS-299-20			US-PATENT-CLASS-435-291
		US-PATENT-APPL-SN-798976			US-PATENT-4,226,475			US-PATENT-CLASS-435-34
		US-PATENT-CLASS-128-80F	N81-26718* #	c 54	NASA-CASE-MFS-23696-1			US-PATENT-CLASS-435-5
		US-PATENT-4,252,111			US-PATENT-APPL-SN-945044			US-PATENT-4,264,728
N81-25662* #	c 52	NASA-CASE-ARC-11167-1			US-PATENT-CLASS-294-93	N81-28740* #	c 52	NASA-CASE-MSC-18381-1
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		US-PATENT-CLASS-128-89R			US-PATENT-CLASS-414-735			US-PATENT-CLASS-128-295
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US-PATENT-CLASS-65-142
US-PATENT-CLASS-65-21.4
US-PATENT-CLASS-65-22
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N82-28444* # c 27 NASA-CASE-ARC-11359-1
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N82-28545* # c 33 NASA-CASE-MFS-23776-1
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US-PATENT-CLASS-372-82
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N82-28641* # c 37 NASA-CASE-MSC-20112-1
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N82-28642* # c 37 NASA-CASE-NPO-15483-1
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N82-29013* # c 60 NASA-CASE-MSC-18498-1
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N82-29358* # c 23 NASA-CASE-LAR-10423-1
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		US-PATENT-CLASS-136-249			NASA-CASE-LAR-12620-1			NASA-CASE-NPO-15351-1
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		US-PATENT-CLASS-29-572			US-PATENT-CLASS-244-132			US-PATENT-CLASS-343-100ME
		US-PATENT-CLASS-357-30			US-PATENT-CLASS-244-158A			US-PATENT-CLASS-374-122
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		US-PATENT-CLASS-429-40			US-PATENT-CLASS-12587-1			US-PATENT-CLASS-204-192E
		US-PATENT-4,331,742			US-PATENT-APPL-SN-173524			US-PATENT-CLASS-313-106
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N82-29862* #	c 52	NASA-CASE-LAR-12471-1			NASA-CASE-LAR-12743-1		N83-10126* #	c 25
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		US-PATENT-CLASS-433-86			US-PATENT-CLASS-356-28.5		N83-10170* #	c 26
		US-PATENT-4,331,422			US-PATENT-4,348,990			NASA-CASE-LEW-12941-1
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		US-PATENT-CLASS-250-231R			US-PATENT-CLASS-294-116			US-PATENT-APPL-SN-280154
		US-PATENT-CLASS-374-162R			US-PATENT-CLASS-414-222			US-PATENT-CLASS-318-803
		US-PATENT-4,338,516			US-PATENT-CLASS-414-226			US-PATENT-CLASS-363-87
N82-30105* #	c 76	NASA-CASE-NPO-14831-1			US-PATENT-CLASS-414-739		N83-10417* #	c 36
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		US-PATENT-CLASS-422-246			US-PATENT-CLASS-403-217			US-PATENT-CLASS-372-59
		US-PATENT-4,330,359			US-PATENT-CLASS-403-317			US-PATENT-CLASS-372-60
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		US-PATENT-CLASS-204-192C			US-PATENT-4,340,318			US-PATENT-CLASS-204-56R
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		US-PATENT-4,341,843			US-PATENT-CLASS-250-330			NASA-CASE-NPO-14369-1
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		US-PATENT-APPL-SN-401283			US-PATENT-4,331,873			US-PATENT-CLASS-422-200
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		US-PATENT-APPL-SN-401282			US-PATENT-APPL-SN-394344			US-PATENT-CLASS-422-224
N82-31505* #	c 26	NASA-CASE-LEW-13339-1			NASA-CASE-MSC-20078-1			US-PATENT-CLASS-55-204
		US-PATENT-APPL-SN-199789			US-PATENT-APPL-SN-394343		N83-10900* #	c 74
		US-PATENT-CLASS-148-428			NASA-CASE-MSC-20261-1			NASA-CASE-GSC-12608-1
		US-PATENT-CLASS-420-445			US-PATENT-APPL-SN-393586			US-PATENT-APPL-SN-195228
		US-PATENT-CLASS-420-551			NASA-CASE-FRC-11058-1			US-PATENT-CLASS-350-170
		US-PATENT-CLASS-420-588			US-PATENT-APPL-SN-175453			US-PATENT-CLASS-350-286
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		US-PATENT-APPL-SN-900841			US-PATENT-CLASS-296-1S			NASA-CASE-ARC-11372-1
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		US-PATENT-CLASS-178-22.17			US-PATENT-CLASS-296-91			NASA-CASE-MFS-25878-1
		US-PATENT-CLASS-364-717			US-PATENT-4,343,506		N83-12138* #	c 18
		US-PATENT-CLASS-375-106			NASA-CASE-LAR-12738-1			US-PATENT-APPL-SN-431886
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		US-PATENT-CLASS-250-332			US-PATENT-CLASS-427-140		N83-12239* #	c 27
		US-PATENT-CLASS-250-370			US-PATENT-CLASS-427-372.2			NASA-CASE-ARC-11405-1
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		US-PATENT-CLASS-29-620			NASA-CASE-LEW-13028-1			NASA-CASE-NPO-15432-1
		US-PATENT-4,341,012			US-PATENT-APPL-SN-218588			US-PATENT-APPL-SN-425204
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N82-31689* #	c 37	NASA-CASE-MSC-20319-1			US-PATENT-CLASS-204-38B		N83-12333* #	c 33
		US-PATENT-APPL-SN-393582			US-PATENT-CLASS-428-141			NASA-CASE-NPO-15935-1
N82-31690* #	c 37	NASA-CASE-MSC-20304-1			US-PATENT-4,344,996			US-PATENT-APPL-SN-437913
		US-PATENT-APPL-SN-393585			NASA-CASE-LEW-13639-1		N83-12335* #	c 33
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		US-PATENT-APPL-SN-219677			NASA-CASE-ARC-14408-1		N83-12434* #	c 37
		US-PATENT-CLASS-136-249			US-PATENT-APPL-SN-403371			NASA-CASE-GSC-12794-1
		US-PATENT-CLASS-357-30			NASA-CASE-NPO-15920-1			US-PATENT-APPL-SN-431421
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N82-32366* #	c 07	NASA-CASE-LEW-12938-1			NASA-CASE-MFS-15670-1			NASA-CASE-MFS-25319-1
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		US-PATENT-CLASS-415-145			NASA-CASE-NPO-15617-1		N83-12969* #	c 71
		US-PATENT-CLASS-415-178			US-PATENT-APPL-SN-409679			NASA-CASE-LAR-12966-1
		US-PATENT-CLASS-60-39.07			NASA-CASE-NPO-15791-1			US-PATENT-APPL-SN-414237
		US-PATENT-CLASS-60-39.29			US-PATENT-APPL-SN-409678		N83-12986* #	c 73
		US-PATENT-CLASS-60-726			NASA-CASE-NPO-14549-2			NASA-CASE-NPO-15851-1
							N83-12992* #	c 74
								US-PATENT-APPL-SN-425202
							N83-13149* #	c 16
								NASA-CASE-NPO-15844-1
								US-PATENT-APPL-SN-416443
								NASA-CASE-MFS-25853
							N83-13171* #	c 24
								US-PATENT-APPL-SN-418138
								US-PATENT-APPL-SN-268256
								US-PATENT-CLASS-427-379
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								US-PATENT-CLASS-429-218

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		US-PATENT-CLASS-244-158A	N83-17536* #	c 06	NASA-CASE-NPO-15351-2	N83-19947* #	c 31	US-PATENT-CLASS-524-437
		US-PATENT-CLASS-427-140			US-PATENT-APPL-SN-412039			US-PATENT-CLASS-524-503
		US-PATENT-CLASS-427-292	N83-17568* #	c 20	NASA-CASE-MFS-25843-1			US-PATENT-CLASS-524-564
		US-PATENT-CLASS-427-302			US-PATENT-APPL-SN-444125			US-PATENT-CLASS-524-786
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		US-PATENT-4,358,480	N83-17663* #	c 26	NASA-CASE-LEW-13839-2			US-PATENT-APPL-SN-322316
N83-13187* #	c 25	NASA-CASE-MFS-25306-1			US-PATENT-APPL-SN-456460			US-PATENT-CLASS-204-129.55
		US-PATENT-APPL-SN-309293	N83-17715* #	c 27	NASA-CASE-LEW-13864-1			US-PATENT-CLASS-204-129.75
		US-PATENT-CLASS-204-280R			US-PATENT-APPL-SN-434087			US-PATENT-4,375,396
		US-PATENT-CLASS-204-299R	N83-17802* #	c 33	NASA-CASE-LEW-13738-1	N83-19968* #	c 32	NASA-CASE-NPO-14035-1
		US-PATENT-4,358,358			US-PATENT-APPL-SN-434084			US-PATENT-APPL-SN-858767
N83-13188* #	c 25	NASA-CASE-LEW-13504-1	N83-17803* #	c 33	NASA-CASE-MFS-25852-1			US-PATENT-CLASS-343-100CL
		US-PATENT-APPL-SN-272234			US-PATENT-APPL-SN-450319			US-PATENT-CLASS-343-5CM
		US-PATENT-CLASS-264-104	N83-17804* #	c 33	NASA-CASE-MFS-25854-1			US-PATENT-CLASS-343-8PS
		US-PATENT-CLASS-429-206			US-PATENT-APPL-SN-450166			US-PATENT-4,371,873
		US-PATENT-CLASS-429-253	N83-17856* #	c 35	NASA-CASE-MSC-20275-1	N83-19969* #	c 32	NASA-CASE-NPO-15743-1
		US-PATENT-CLASS-525-61			US-PATENT-APPL-SN-425205			US-PATENT-APPL-SN-448441
		US-PATENT-4,357,402	N83-17882* #	c 37	NASA-CASE-MSC-20418-1	N83-19970* #	c 32	NASA-CASE-NPO-15899-1
N83-13258* #	c 27	NASA-CASE-LEW-13770-1			US-PATENT-APPL-SN-438446			US-PATENT-APPL-SN-457991
		US-PATENT-APPL-SN-404809	N83-17883* #	c 37	NASA-CASE-LEW-13445-2	N83-20083* #	c 35	NASA-CASE-GSC-12851-1
N83-13233* #	c 32	NASA-CASE-KSC-11025-1			US-PATENT-APPL-SN-456929			US-PATENT-APPL-SN-459842
		US-PATENT-APPL-SN-061327	N83-18423* #	c 72	NASA-CASE-GSC-12805-1	N83-20084* #	c 35	NASA-CASE-NPO-15722-1
		US-PATENT-CLASS-371-6			US-PATENT-APPL-SN-456907			US-PATENT-APPL-SN-457892
		US-PATENT-4,358,846	N83-18533* #	c 76	NASA-CASE-MFS-25788-1	N83-20085 #	c 35	NASA-CASE-GSC-12795-1
N83-13360* #	c 33	NASA-CASE-GSC-12782-1			US-PATENT-APPL-SN-411896			US-PATENT-APPL-SN-462508
		US-PATENT-APPL-SN-399074	N83-18908* #	c 27	NASA-CASE-MSC-18832-1	N83-20092* #	c 36	NASA-CASE-NPO-15943-1
N83-13424* #	c 35	NASA-CASE-GSC-12824-1			US-PATENT-APPL-SN-365950			US-PATENT-APPL-SN-441898
		US-PATENT-APPL-SN-415959			US-PATENT-CLASS-428-241	N83-20152* #	c 37	NASA-CASE-ARC-11414-1
N83-13425* #	c 35	NASA-CASE-GSC-12789-1			US-PATENT-CLASS-428-244			US-PATENT-APPL-SN-461714
		US-PATENT-APPL-SN-409680			US-PATENT-CLASS-428-245	N83-20153* #	c 37	NASA-CASE-GSC-12799-1
N83-13460* #	c 37	NASA-CASE-GSC-12582-2			US-PATENT-CLASS-428-260			US-PATENT-APPL-SN-461724
		US-PATENT-APPL-SN-415960			US-PATENT-CLASS-428-331	N83-20154* #	c 37	NASA-CASE-MFS-25807
N83-13579* #	c 44	NASA-CASE-LEW-13620-1			US-PATENT-CLASS-428-368			US-PATENT-APPL-SN-460733
		US-PATENT-APPL-SN-242796			US-PATENT-CLASS-428-902	N83-20155* #	c 37	NASA-CASE-NPO-15949-1
		US-PATENT-CLASS-136-256			US-PATENT-CLASS-428-913			US-PATENT-APPL-SN-457990
		US-PATENT-CLASS-136-259			US-PATENT-CLASS-428-920	N83-20156* #	c 37	NASA-CASE-LAR-12875-1
		US-PATENT-CLASS-29-572			US-PATENT-4,373,003			US-PATENT-APPL-SN-469865
		US-PATENT-CLASS-357-30	N83-18975* #	c 32	NASA-CASE-NPO-14998-1	N83-20157* #	c 37	NASA-CASE-NPO-16038-1
		US-PATENT-CLASS-427-88			US-PATENT-APPL-SN-195547			US-PATENT-APPL-SN-469864
		US-PATENT-CLASS-427-89			US-PATENT-CLASS-250-203R	N83-20280* #	c 39	NASA-CASE-MSC-18929-1
		US-PATENT-CLASS-427-90			US-PATENT-CLASS-343-100CL			US-PATENT-APPL-SN-198093
		US-PATENT-CLASS-427-91			US-PATENT-CLASS-343-5CM			US-PATENT-CLASS-128-782
		US-PATENT-4,335,196			US-PATENT-CLASS-364-822			US-PATENT-CLASS-358-105
N83-13978* #	c 74	NASA-CASE-ARC-11311-1			US-PATENT-CLASS-364-861			US-PATENT-CLASS-364-413
		US-PATENT-APPL-SN-219640			US-PATENT-4,371,946			US-PATENT-CLASS-364-522
		US-PATENT-CLASS-350-287	N83-18996* #	c 33	NASA-CASE-NPO-14567-1			US-PATENT-CLASS-364-559
		US-PATENT-CLASS-350-486			US-PATENT-APPL-SN-038550			US-PATENT-CLASS-73-379
		US-PATENT-4,355,870			US-PATENT-APPL-SN-180230	N83-20284* #	c 39	US-PATENT-4,375,674
N83-13982* #	c 74	NASA-CASE-GSC-12761-1			US-PATENT-CLASS-250-311			US-PATENT-APPL-SN-463456
		US-PATENT-APPL-SN-406820			US-PATENT-CLASS-324-73R	N83-20324* #	c 43	NASA-CASE-NPO-15939-1
N83-14275* #	c 27	NASA-CASE-ARC-11413-1			US-PATENT-CLASS-356-394			US-PATENT-APPL-SN-465385
		US-PATENT-APPL-SN-440656			US-PATENT-4,358,732	N83-20374* #	c 44	NASA-CASE-LEW-13414-1
N83-14607* #	c 43	NASA-CASE-MFS-25717-1	N83-19015* #	c 34	NASA-CASE-MFS-25282-1			US-PATENT-APPL-SN-465364
		US-PATENT-APPL-SN-441887			US-PATENT-APPL-SN-263828	N83-20446* #	c 45	NASA-CASE-GSC-12808-1
N83-14692* #	c 44	NASA-CASE-LEW-12892-1			US-PATENT-CLASS-378-2			US-PATENT-APPL-SN-462497
		US-PATENT-APPL-SN-264380			US-PATENT-CLASS-378-43	N83-20634* #	c 62	NASA-CASE-NPO-15433-1
		US-PATENT-CLASS-136-255			US-PATENT-4,370,750			US-PATENT-APPL-SN-250585
		US-PATENT-CLASS-136-256	N83-19091* #	c 37	NASA-CASE-LAR-12361-1	N83-20757* #	c 74	NASA-CASE-NPO-15805-1
		US-PATENT-CLASS-136-259			US-PATENT-APPL-SN-182880			US-PATENT-APPL-SN-296137
		US-PATENT-4,360,701			US-PATENT-CLASS-411-353	N83-20789* #	c 76	NASA-CASE-NPO-15625-1
N83-14693* #	c 44	NASA-CASE-MSC-18794-1			US-PATENT-CLASS-411-517			US-PATENT-APPL-SN-325833
		US-PATENT-APPL-SN-238785			US-PATENT-4,371,301			US-PATENT-CLASS-148-173
		US-PATENT-CLASS-417-399	N83-18596* #	c 74	NASA-CASE-LEW-12253-1			US-PATENT-CLASS-148-175
		US-PATENT-CLASS-74-110			US-PATENT-APPL-SN-243682			US-PATENT-CLASS-156-608
		US-PATENT-4,360,325			US-PATENT-CLASS-165-104.26			US-PATENT-CLASS-156-624
N83-14863* #	c 47	NASA-CASE-LAR-12971-1			US-PATENT-CLASS-165-134R			US-PATENT-CLASS-156-635
		US-PATENT-APPL-SN-444149			US-PATENT-CLASS-29-157.3H			US-PATENT-CLASS-156-654
N83-15149* #	c 76	NASA-CASE-NPO-15800-1			US-PATENT-4,372,377			US-PATENT-CLASS-156-662
		US-PATENT-APPL-SN-442815	N83-19597* #	c 74	NASA-CASE-NPO-14864-1	N83-20944* #	c 07	US-PATENT-4,373,989
N83-16626* #	c 33	NASA-CASE-LAR-12772-1			US-PATENT-APPL-SN-061822			NASA-CASE-MFS-23981-1
		US-PATENT-APPL-SN-199767			US-PATENT-CLASS-250-227			US-PATENT-APPL-SN-231543
		US-PATENT-CLASS-73-579			US-PATENT-CLASS-250-332			US-PATENT-CLASS-244-159
		US-PATENT-CLASS-73-597			US-PATENT-CLASS-250-340			US-PATENT-CLASS-244-173
		US-PATENT-CLASS-73-629			US-PATENT-CLASS-250-350			US-PATENT-CLASS-322-2R
		US-PATENT-CLASS-73-761			US-PATENT-CLASS-250-351			US-PATENT-CLASS-339-3R
		US-PATENT-4,363,242			US-PATENT-CLASS-350-353			US-PATENT-CLASS-339-5R
N83-16633* #	c 33	NASA-CASE-LAR-12847-1			US-PATENT-4,262,198			US-PATENT-CLASS-343-DIG2
		US-PATENT-APPL-SN-393456	N83-19715* #	c 02	NASA-CASE-LAR-12825-1			US-PATENT-4,377,266
N83-17045* #	c 51	NASA-CASE-NPO-15213-1			US-PATENT-APPL-SN-456915	N83-20995* #	c 17	NASA-CASE-LAR-13006-1
		US-PATENT-CLASS-47-58	N83-19737* #	c 05	NASA-CASE-FRC-11065-1			US-PATENT-APPL-SN-470113
		US-PATENT-CLASS-71-98			US-PATENT-APPL-SN-248744	N83-20996* #	c 18	NASA-CASE-LEW-13269-1
		US-PATENT-4,363,188			US-PATENT-CASE-244-121			US-PATENT-APPL-SN-242795
N83-17235* #	c 71	NASA-CASE-LAR-12883-1			US-PATENT-CASE-244-129.4			US-PATENT-CLASS-415-174
		US-PATENT-APPL-SN-267935			US-PATENT-CASE-292-254			US-PATENT-CLASS-415-187
		US-PATENT-CLASS-73-147	N83-19826* #	c 25	NASA-CASE-NPO-14565-2			US-PATENT-4,377,371
		US-PATENT-4,363,237			US-PATENT-APPL-SN-408266	N83-21238* #	c 33	NASA-CASE-ARC-11367-1
N83-17305* #	c 74	NASA-CASE-MFS-25312-1	N83-19890* #	c 26	NASA-CASE-NPO-15658-1			US-PATENT-APPL-SN-460511
		US-PATENT-APPL-SN-187106			US-PATENT-APPL-SN-451896	N83-21311* #	c 35	NASA-CASE-LAR-12469-1
		US-PATENT-CLASS-350-171	N83-19900* #	c 27	NASA-CASE-NPO-14857-1			US-PATENT-APPL-SN-195223

		US-PATENT-CLASS-250-338			US-PATENT-APPL-SN-492522			US-PATENT-CLASS-525-474
		US-PATENT-CLASS-250-372			NASA-CASE-GSC-12643-1			US-PATENT-4,389,504
		US-PATENT-CLASS-250-474-1	N83-26078* #	c 37	US-PATENT-APPL-SN-238788	N83-28281* #	c 31	NASA-CASE-ARC-11363-1
		US-PATENT-CLASS-356-51			US-PATENT-CLASS-417-15			US-PATENT-APPL-SN-500046
		US-PATENT-4,372,680			US-PATENT-CLASS-47-26	N83-28319* #	c 33	NASA-CASE-MFS-25302-1
N83-21312* #	c 35	NASA-CASE-MSC-18723-1			US-PATENT-4,381,174			US-PATENT-APPL-SN-243683
		US-PATENT-APPL-SN-234223	N83-26080* #	c 37	NASA-CASE-MFS-25842-1			US-PATENT-CLASS-322-29
		US-PATENT-CLASS-73-818			US-PATENT-APPL-SN-489902			US-PATENT-CLASS-322-35
		US-PATENT-4,377,089	N83-26258* #	c 44	NASA-CASE-LEW-13827-1			US-PATENT-CLASS-322-47
N83-21316* #	c 35	NASA-CASE-MFS-25833-1			US-PATENT-APPL-SN-486470			US-PATENT-CLASS-322-95
		US-PATENT-APPL-SN-473827	N83-26646* #	c 71	NASA-CASE-MFS-25828-1			US-PATENT-4,388,585
N83-21503* #	c 44	NASA-CASE-LAR-12458-1			US-PATENT-APPL-SN-493866	N83-28329* #	c 33	NASA-CASE-MFS-25862
		US-PATENT-APPL-SN-274705	N83-27058* #	c 31	NASA-CASE-GSC-12636-1			US-PATENT-APPL-SN-504345
		US-PATENT-CLASS-73-147			US-PATENT-APPL-SN-173520	N83-28356* #	c 34	NASA-CASE-GSC-12553-1
		US-PATENT-4,372,158			US-PATENT-CLASS-125-20			US-PATENT-APPL-SN-106192
N83-21504* #	c 44	NASA-CASE-LAR-12720-1			US-PATENT-CLASS-408-1R			US-PATENT-CLASS-165-185
		US-PATENT-APPL-SN-274706			US-PATENT-CLASS-408-61			US-PATENT-CLASS-165-32
		US-PATENT-CLASS-73-147			US-PATENT-CLASS-409-131			US-PATENT-CLASS-165-76
		US-PATENT-4,372,159			US-PATENT-4,383,785			US-PATENT-4,388,965
N83-21785* #	c 52	NASA-CASE-LEW-13107-1	N83-27085* #	c 32	NASA-CASE-NPO-15401-1	N83-28450* #	c 37	NASA-CASE-LEW-13268-3
		US-PATENT-APPL-SN-272407			US-PATENT-APPL-SN-259210			US-PATENT-APPL-SN-500045
		US-PATENT-CLASS-604-280			US-PATENT-CLASS-333-22F	N83-28573* #	c 44	NASA-CASE-LAR-12495-1
		US-PATENT-CLASS-604-8			US-PATENT-CLASS-333-254			US-PATENT-APPL-SN-263830
		US-PATENT-4,377,169			US-PATENT-4,382,239			US-PATENT-CLASS-310-11
N83-21903* #	c 72	NASA-CASE-LEW-13881-1	N83-27126* #	c 33	NASA-CASE-NPO-15358-1			US-PATENT-4,388,542
		US-PATENT-APPL-SN-473498			US-PATENT-APPL-SN-219968	N83-28574* #	c 44	NASA-CASE-GSC-12697-1
N83-21949* #	c 74	NASA-CASE-ARC-11354-1			US-PATENT-CLASS-323-269			US-PATENT-APPL-SN-308204
		US-PATENT-APPL-SN-282192			US-PATENT-CLASS-323-303			US-PATENT-CLASS-308-10
		US-PATENT-CLASS-356-357			US-PATENT-CLASS-323-350			US-PATENT-CLASS-310-15
		US-PATENT-CLASS-73-147			US-PATENT-4,382,224			US-PATENT-CLASS-417-417
		US-PATENT-4,377,343	N83-27144* #	c 34	NASA-CASE-LEW-13174-1			US-PATENT-CLASS-62-6
N83-21950* #	c 74	NASA-CASE-MFS-25752-1			US-PATENT-APPL-SN-200634			US-PATENT-4,389,849
		US-PATENT-APPL-SN-473499			US-PATENT-CLASS-415-115	N83-28849* #	c 51	NASA-CASE-ARC-11322-1
N83-21993* #	c 76	NASA-CASE-NPO-15904-1			US-PATENT-CLASS-416-1			US-PATENT-APPL-SN-315278
		US-PATENT-APPL-SN-465369			US-PATENT-CLASS-416-97R			US-PATENT-CLASS-435-3
N83-24572* #	c 25	NASA-CASE-NPO-16135-1			US-PATENT-4,384,823			US-PATENT-CLASS-435-34
		US-PATENT-APPL-SN-470114	N83-27184* #	c 35	NASA-CASE-NPO-15292-1			US-PATENT-CLASS-435-38
N83-24639* #	c 26	NASA-CASE-LEW-13834-1			US-PATENT-APPL-SN-207135			US-PATENT-CLASS-435-39
		US-PATENT-APPL-SN-478131			US-PATENT-CLASS-250-282			US-PATENT-CLASS-435-807
N83-24763* #	c 33	NASA-CASE-LAR-12363-2			US-PATENT-CLASS-250-288			US-PATENT-4,386,157
		US-PATENT-APPL-SN-377892			US-PATENT-CLASS-250-423	N83-29032* #	c 74	NASA-CASE-KSC-11

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		US-PATENT-CLASS-315-208			US-PATENT-4,402,992			US-PATENT-CLASS-330-282
		US-PATENT-CLASS-315-224			NASA-CASE-LAR-13098-1			US-PATENT-4,406,989
		US-PATENT-CLASS-315-225	N83-35178* #	c 31	US-PATENT-APPL-SN-530339	N83-36357* #	c 33	NASA-CASE-LAR-12654-1
		US-PATENT-CLASS-315-237			NASA-CASE-MFS-25209-1			US-PATENT-APPL-SN-234225
		US-PATENT-CLASS-315-241R	N83-35227* #	c 33	US-PATENT-APPL-SN-291132			US-PATENT-CLASS-368-184
		US-PATENT-CLASS-372-25			US-PATENT-CLASS-318-685			US-PATENT-CLASS-368-200
		US-PATENT-4,398,129			US-PATENT-CLASS-318-798			US-PATENT-CLASS-368-201
N83-34190* #	c 33	NASA-CASE-MFS-25607-1			US-PATENT-CLASS-318-806			US-PATENT-4,407,589
		US-PATENT-APPL-SN-325886			US-PATENT-4,401,934	N83-36482* #	c 37	NASA-CASE-MSC-18791-1
		US-PATENT-CLASS-361-90	N83-35228* #	c 33	NASA-CASE-GSC-12804-1			US-PATENT-APPL-SN-248746
		US-PATENT-CLASS-318-729			US-PATENT-APPL-SN-529803			US-PATENT-CLASS-29-446
		US-PATENT-CLASS-318-798	N83-35229* #	c 33	NASA-CASE-MFS-25750-1			US-PATENT-CLASS-73-862.54
		US-PATENT-CLASS-318-806			US-PATENT-APPL-SN-530185			US-PATENT-CLASS-81-55
		US-PATENT-CLASS-361-100	N83-35307* #	c 34	NASA-CASE-GSC-12812-1			US-PATENT-CLASS-81-57.38
		US-PATENT-CLASS-363-54			US-PATENT-APPL-SN-434674			US-PATENT-4,407,165
		US-PATENT-4,400,657			US-PATENT-CLASS-165-104.26	N83-36483* #	c 37	NASA-CASE-MSC-18807-1
N83-34191* #	c 33	NASA-CASE-GSC-12646-1			US-PATENT-CLASS-165-32			US-PATENT-APPL-SN-266688
		US-PATENT-APPL-SN-284290			US-PATENT-4,402,358			US-PATENT-CLASS-123-197R
		US-PATENT-CLASS-330-289	N83-35338* #	c 35	NASA-CASE-LEW-13934-1			US-PATENT-CLASS-123-78E
		US-PATENT-CLASS-330-310			US-PATENT-APPL-SN-212949			US-PATENT-4,406,256
		US-PATENT-4,401,953			US-PATENT-CLASS-228-103	N83-36484* #	c 37	NASA-CASE-NPO-15482-1
N83-34221* #	c 34	NASA-CASE-LAR-12393-1			US-PATENT-CLASS-228-193			US-PATENT-APPL-SN-526739
		US-PATENT-APPL-SN-145208			US-PATENT-CLASS-228-263.18	N83-36485* #	c 37	NASA-CASE-NPO-15960-1
		US-PATENT-CLASS-165-27			US-PATENT-CLASS-415-118			NASA-CASE-NPO-16120-1
		US-PATENT-CLASS-165-12			US-PATENT-4,402,447			US-PATENT-APPL-SN-527613
		US-PATENT-CLASS-165-61	N83-35350* #	c 36	NASA-CASE-NPO-15201-1	N83-36846* #	c 71	NASA-CASE-NPO-15435-1
		US-PATENT-CLASS-165-80E			US-PATENT-APPL-SN-246778			US-PATENT-APPL-SN-272837
		US-PATENT-CLASS-374-46			US-PATENT-CLASS-330-4			US-PATENT-CLASS-308-10
		US-PATENT-CLASS-62-514R			US-PATENT-CLASS-332-7.5			US-PATENT-CLASS-73-505
		US-PATENT-CLASS-62-62			US-PATENT-CLASS-333-24.2			US-PATENT-4,402,221
		US-PATENT-4,346,754	N83-34272* #	c 35	US-PATENT-4,399,415	N83-36847* #	c 71	NASA-CASE-NPO-16022-1
		NASA-CASE-ARC-11317-1			US-PATENT-CLASS-15334-1			US-PATENT-APPL-SN-526750
		US-PATENT-APPL-SN-228231			US-PATENT-APPL-SN-341406	N83-36898* #	c 74	NASA-CASE-GSC-12683-1
		US-PATENT-CLASS-340-518			US-PATENT-CLASS-210-748			US-PATENT-APPL-SN-333535
		US-PATENT-CLASS-340-566			US-PATENT-CLASS-252-361			US-PATENT-CLASS-350-173
		US-PATENT-4,374,378			US-PATENT-CLASS-366-114			US-PATENT-CLASS-350-445
N83-34273* #	c 35	NASA-CASE-LAR-12968-1			US-PATENT-CLASS-55-15			US-PATENT-4,407,563
		US-PATENT-APPL-SN-523560			US-PATENT-CLASS-55-277	N84-11136* #	c 02	NASA-CASE-LAR-12843-1
N83-34304* #	c 36	NASA-CASE-ARC-11312-1			US-PATENT-CLASS-55-38			US-PATENT-APPL-SN-392096
		US-PATENT-APPL-SN-234224			US-PATENT-CLASS-55-52			US-PATENT-CLASS-244-35A
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		US-PATENT-CLASS-356-4			US-PATENT-4,398,925			US-PATENT-CLASS-416-223R
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1. Report No. NASA SP-7039 (25)	2. Government Accession No.	3. Recipient's Catalog No.	
4. Title and Subtitle NASA Patent Abstracts Bibliography: A Continuing Bibliography Section 2: Indexes (Supplement 25)		5. Report Date July 1984	
		6. Performing Organization Code	
7. Author(s)		8. Performing Organization Report No.	
9. Performing Organization Name and Address National Aeronautics and Space Administration Washington, D.C. 20546		10. Work Unit No.	
		11. Contract or Grant No.	
		13. Type of Report and Period Covered	
12. Sponsoring Agency Name and Address		14. Sponsoring Agency Code	
15. Supplementary Notes Section 2: Indexes			
16. Abstract A subject index is provided for over 4300 patents and patent applications for the period May 1969 through June 1984. Additional indexes list personal authors, corporate authors, contract numbers, NASA case numbers, U.S. patent class numbers, U.S. patent numbers, and NASA accession numbers.			
17. Key Words (Suggested by Author(s)) Bibliographies Patent Policy NASA Programs		18. Distribution Statement Unclassified - Unlimited	
19. Security Classif. (of this report) Unclassified	20. Security Classif. (of this page) Unclassified	21. No. of Pages 457	22. Price* \$20.00 HC

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